

GV  
1024  
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v. 3









# Go ahead in safety



**W**HEN you carry HAGSTROM INSIDE TIRE SLEEVES in your tool box there is no need of carrying extra casings. The Hagstrom Sleeve fills the bill. They do not disfigure your car and, once inserted in the tires, will last thousands of miles; they positively can not creep and will build up the weak spots; saves vulcanizing, if applied in time, prevents rim cuts and blow outs; easy to insert and will save a large per cent of your tire expense. The Hagstrom Tire Sleeves are the greatest sensation of the season in the auto-tire accessory line, and is the only sleeve that has the endorsement of

*our leading motorists and racing men.*

Workmanship and material are carefully selected. The Hagstrom Sleeves are put up in boxes, making them convenient to carry. Ask your dealer. On sale everywhere.

HAGSTROM BROS. MANUFACTURING CO.

Works and Main Office  
LINDSBORG, KANSAS

# Do You Wonder that the Splitdorf Product Leads the World?

The Most Marvelous Non-Stop Automobile Run Ever Made—10,000 miles without stopping its engine recently accomplished by a Maxwell car equipped with a

## **SPLITDORF MAGNETO**

*AND*

## **COMMON SENSE PLUGS**

Magneto and Plugs gave absolutely perfect ignition during entire run.

It is comparatively easy for any Magneto or Plug to show good results in a race of 400 or 500 miles, but a gruelling test of 25 days' continuous and perfect work is a performance that proves to the utmost the efficiency and reliability of this incomparable Magneto and Plug.

The following is the last paragraph of a letter received by us from the Maxwell-Briscoe Motor Co. regarding this unparalleled feat:

"This test has conclusively proved to us that your Magneto is superior to anything we have ever used."

Yours very truly,  
MAXWELL-BRISCOE MOTOR CO.  
C. W. Kelsey."

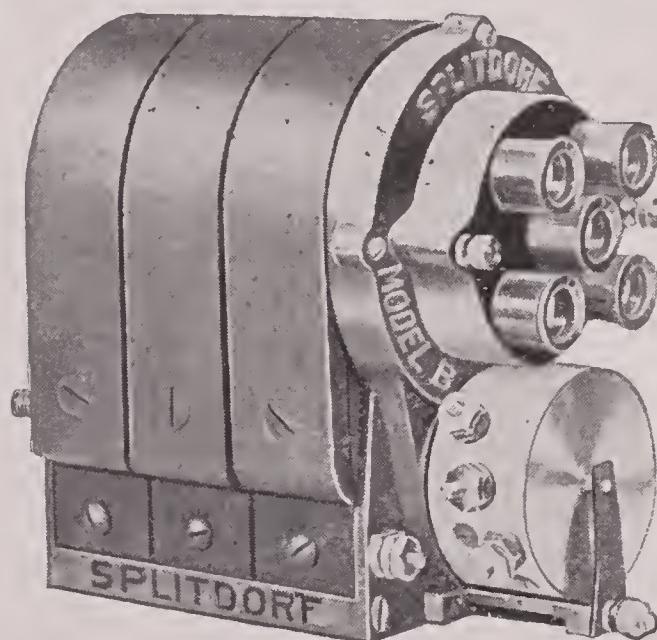
Ask for Magneto catalog

CHICAGO: 319 Michigan Ave.  
SAN FRANCISCO:  
520 Van Ness Ave.  
DETROIT: 886 Woodward Ave.  
BOSTON: Motor Mart.

**C. F. SPLITDORF**

Walton Ave. and 138th St.  
Branch, 1679 Broadway

**NEW YORK**



# Autoline

The Perfect Lubricating Oil for All Types of Motor Cars  
and Motor Boats

## The Oil that Saves the Motor

A supply of Autoline for cylinders, Greoil for transmissions  
and B Journal Compound for bearings on a long trip se-  
cures a maximum of efficiency and a minimum of worry.

# Autoline

IF PROPERLY USED

## Will Not Carbonize--Will Not Soot

Quality and uniformity guaranteed—Accept no substitute.  
There is nothing "Just as Good" for a motor car of any  
description. If your garage does not keep Autoline,  
write us and name make of your car.

# Autoline

Manufactured by

## Wm. C. Robinson & Son Co.

CHICAGO, ILL.  
BOSTON, MASS.

TERRE HAUTE, IND.  
PHILADELPHIA, PA.

BALTIMORE, MD.  
PITTSBURG, PA.

—CINCINNATI, O.—

REFINERY AT CORAOPOLIS, PA.

First on Land, First on Sea,  
First in the Hearts of All Motormen

# Mosler Spit Fire PLUGS

## Lead the World USED BY THE LEADING MANUFACTURERS MAGNETO TYPE OF ALL SIZES

Made to fit any engine, any thread.

Have heavy Genuine Iridium Platinum Points.

Can be had for the asking.

### Energetic Ignition

BASE Protects Porcelain and Sparking Points  
BASE acts as Condenser of Electricity  
BASE Forms Compression Chamber

### Greater Power

BASE Makes Plugs Spit Fire  
BASE Economizes Current  
BASE Facilitates Sparking

INSIST UPON THE TWO PATENTED SIDE CLEANING HOLES  
*One is not enough!*

We Protect our Registered Trade Mark and Patents. Dealers and Jobbers BEWARE!

Do not be deceived by any other "Fire" name.  
There is only ONE GENUINE "Spit Fire" plug—that made by

A. R. MOSLER & CO.

Originators of the "Spit Fire" principle

### A TRIUMPH FOR THE SPIT FIRE

The ONLY Plugs in the WORLD that ACTUALLY Spit Fire.

INSIST ON THE GENUINE, with Name on Porcelain and Base

A. R. MOSLER & CO 163 W 29th Street, New York

Don't Walk Home

Don't Run on Flat Tires

Put on a **CINCH**



Patent Allowed

## ARE YOU PREPARED FOR A BLOW-OUT?

IF NOT

**GET A CINCH TIRE SHIELD**

Made to fit any sized tire

Made either of LEATHER REINFORCED with STEEL or of  
STEEL COVERED WITH CANVAS

**WHY CARRY EXTRA CASES ?**

Put a few Cinches in the tool box and repair any and all blow-outs

**ASK FOR OUR CATALOGUE**

OF

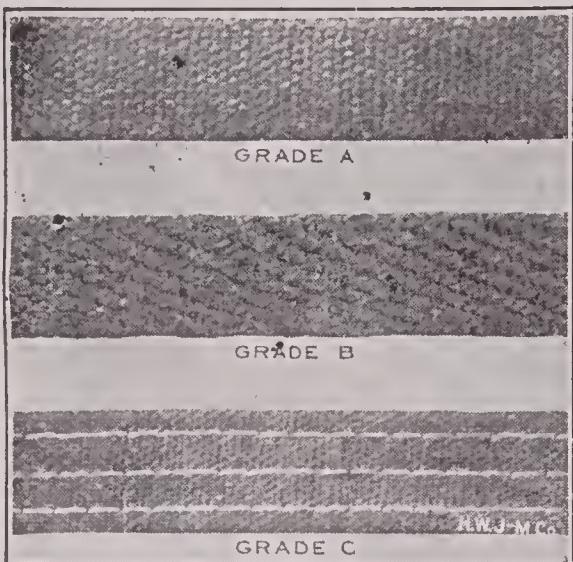
AUTO NOVELTIES AND SUPPLIES INCLUDING THE MARVELOUS  
TARNISH PREVENTATIVE

---

**LAWRENCE & WELCH**

STERLING, ILLINOIS

*For sale by all Reliable Dealers*



MADE IN THREE GRADES—  
Any Length or Thickness

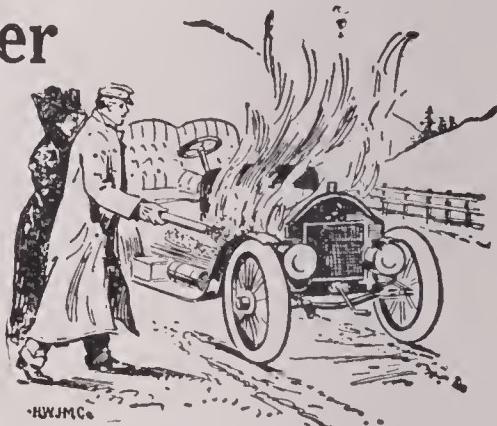
**NON-BURN BRAKE LINING** is made of pure long-fibred Asbestos with brass wires inserted. Heat from friction or oil and water do not affect it. Wears 40,000 to 50,000 miles.

*Write nearest Branch for Sample and Booklet.*

## Manville Fire Extinguisher

is absolutely warranted to put out any fire, whether arising from gasoline, benzine, calcium carbide, or any other cause, if thrown at the base of flames when fire first starts. It is also warranted not to injure paint or the upholstering, and not to freeze, cake in the tube, corrode or deteriorate with age.

Is always ready, always sure. Over a Half Million in Use.



*Write nearest Branch for Booklet.*



## Mobilene Packing Won't Blow Out

MOBILENE PACKING does not burn, char, harden and blow out like rubber, cloth and other so-called gas-engine packings. It is made of an indestructible mineral—*asbestos*—which heat does not affect.

MOBILENE also has exceptional strength because fine brass wires are intertwined in each strand. It is pliable, compressible and easily cut. Is graphited one side and all ready to apply.

See that it is used on your auto and avoid vexatious delays. Write nearest Branch for Sample and Booklet.

## H. W. JOHNS-MANVILLE CO.

Baltimore  
Boston  
Buffalo  
Chicago

Cleveland  
Dallas  
Detroit  
Kansas City

London  
Los Angeles  
Milwaukee  
Minneapolis

New Orleans  
New York  
Philadelphia  
Pittsburg

San Francisco  
Seattle  
St. Louis

# Waterhouse

## Carburetor

No re-hashing of old methods,  
fundamentally new

IT HAS ONLY ONE ADJUSTMENT, THE NEEDLE VALVE, ONCE SET REMAINS FIXED FOR ALL SPEEDS

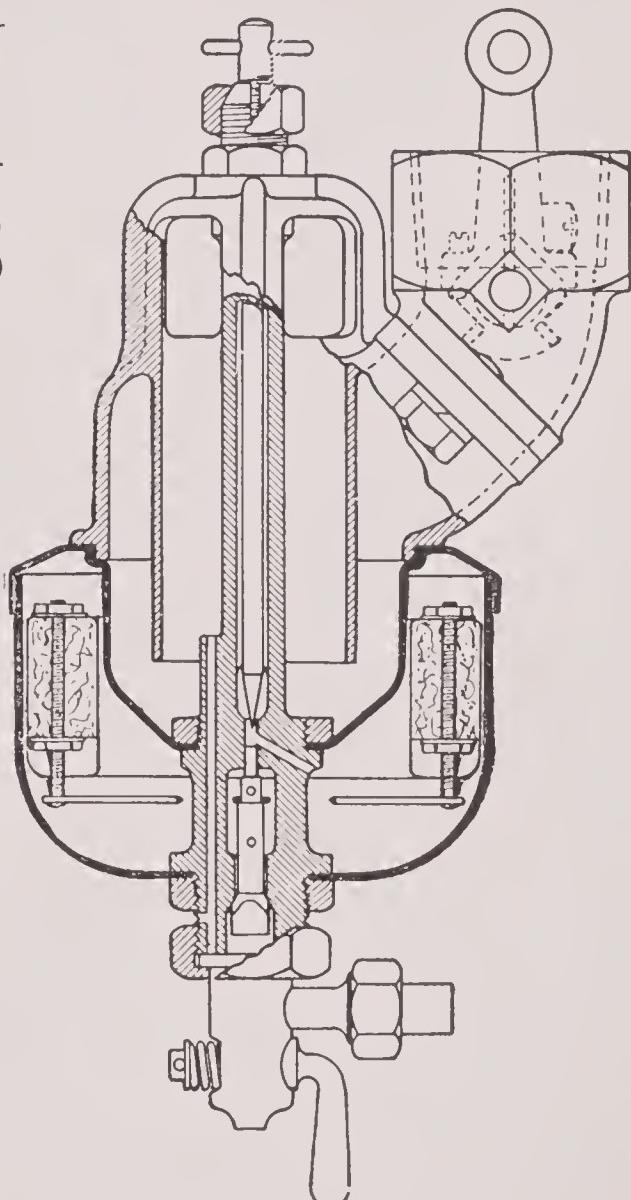
No Air Auxiliaries, no Springs and no Spray Nozzle, can't Flood.

Always primed for starting, won't choke up. Responds to the throttle instantly.

It's light in weight and very tiny.

Extremely powerful and gives absolutely no trouble.

Its price is low.



Makers of the  
celebrated

Bemus  
Timers

Monitor Mfg. Co.

28 PELHAM COURT  
Boston, Mass.

Manufacturers of the  
Famous

Monitor  
Distributors

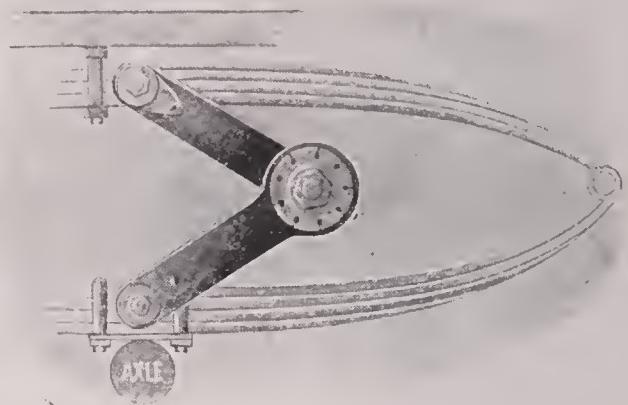
# **STOP THE JAR AND SHOCK**

AND THE EVER WORKING INJURY TO YOUR  
CAR BY THE USE OF THE

## **WESTEN SHOCK ABSORBER**

THE ONLY SHOCK ABSORBER MADE THAT  
WILL AUTOMATICALLY ADJUST THEMSELVES  
TO ANY LOAD OR ROAD CONDITIONS.

This absorber automatically adjusts itself to the natural position regardless of the load carried by the vehicle, and at the same time brakes the upward as well as the downward motion of the springs.



In the ordinary shock absorber the absorbing qualities are lost by the addition of extra weight, or if the car meets with an unordinary obstruction. While the vibration of the engine is in no way checked and is the cause of much wear and tear. Westen Shock Absorbers catch all vibrations at all times no matter how small or how great. The automatic adjustment within itself make them superior. After once attached to your car assurance of safety and less cost for upkeep is guaranteed, and the unpleasant sound of the nerve racking rat-

tle of loose parts is eliminated.

You should realize at once the damage done by oscillation and equip your car with Westen Shock Absorbers. You will then be prepared to meet unexpected jolts and unseen depressions in the road and add, at the same time, comfort to the passengers of the car.

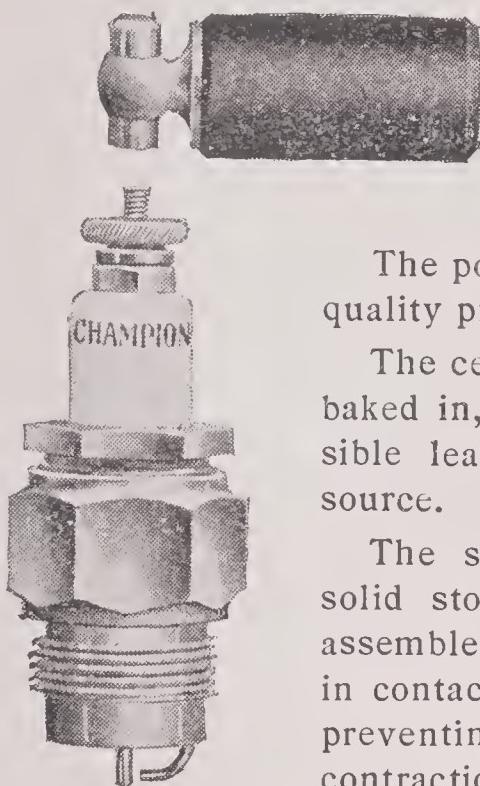
There are two friction planes which make the absorber capable of offering different degrees of resistance to the action of the vehicle springs under varying conditions.

### **WESTEN MANUFACTURING CO.**

290 HALSEY STREET

Newark, New Jersey

# The Right Spark Plug is an important adjunct to any Gas Engine



In the construction of the Champion Spark Plug the utmost care is given to every detail, thus assuring the best results.

The porcelain is of the very highest quality procurable.

The centre wire is firmly cemented and baked in, thus doing away with any possible leak of compression through that source.

The shell and bushing are cut from solid stock and so designed that when assembled porcelain does not actually come in contact with either at any point, thus preventing any chance of breakage from contraction or expansion of metal.

The workmanship on parts is so good and so accurate that no matter how many times the plug is taken apart and re-assembled the porcelain is always perfectly centered.

The electrodes or points are of nickel alloy; will not oxidize; are imperforable to spark of almost any intensity; are especially adapted to use with magneto, under which use the points will not burn off as they do on so many other plugs.

The combustion chamber at lower extremity of porcelain keeps the points free from soot, and practically eliminates any necessity for cleaning.

We particularly recommend the use of Champion Plugs under severest conditions, such as very high compression, excessive oil in cylinders, with magneto, etc.

Genuine Champion Spark Plugs are manufactured only by

**The Champion Company**

36 Whittier Street, Boston, Mass.

This is

a cash

6

60

proposition

Compare these sizes with other 6 volt  
60 ampere Batteries

**$8 \times 6\frac{1}{4} \times 9\frac{1}{8}$**

Guaranteed for one year or money refunded. Made in  
sizes from 40 amperes up

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**MICHIGAN STORAGE BATTERY CO.**

67 East Atwater Street, Detroit, Mich.

**YOUR CAR CANNOT RUN EASIEST**

*Nor Last Longest Without the Best Lubricant*

The ONE Automobile Oil and the ONE Automobile Grease you can always depend upon—that gives PERFECT SATISFACTION and reduces cost of lubrication and repair bills to a minimum is

# SPEARE'S

AUTO OIL AND GREASE

THEY SAVE WEAR  
INCREASE POWER and  
EVERY DROP LUBRICATES

## WHY?

Because they are manufactured by a firm with fifty-five years' experience in the lubricating oil business.

**Speare's Body Soap  
Speare's Metal Polish  
Speare's Waste**

are also the most economical you can buy

SPEARE'S GOODS are sold everywhere; if not, send dealer's name and write us direct.

DEALERS—Send for Speare's latest proposition.

**THE ALDEN SPEARE'S SONS CO.**

Established 1851

253 Broadway  
New York

369 Atlantic Avenue  
BOSTON, MASSACHUSETTS

21 River Street  
Chicago

# T. S. D. Recording Company

(Metropolitan Building)

NO. 1 MADISON AVENUE, NEW YORK

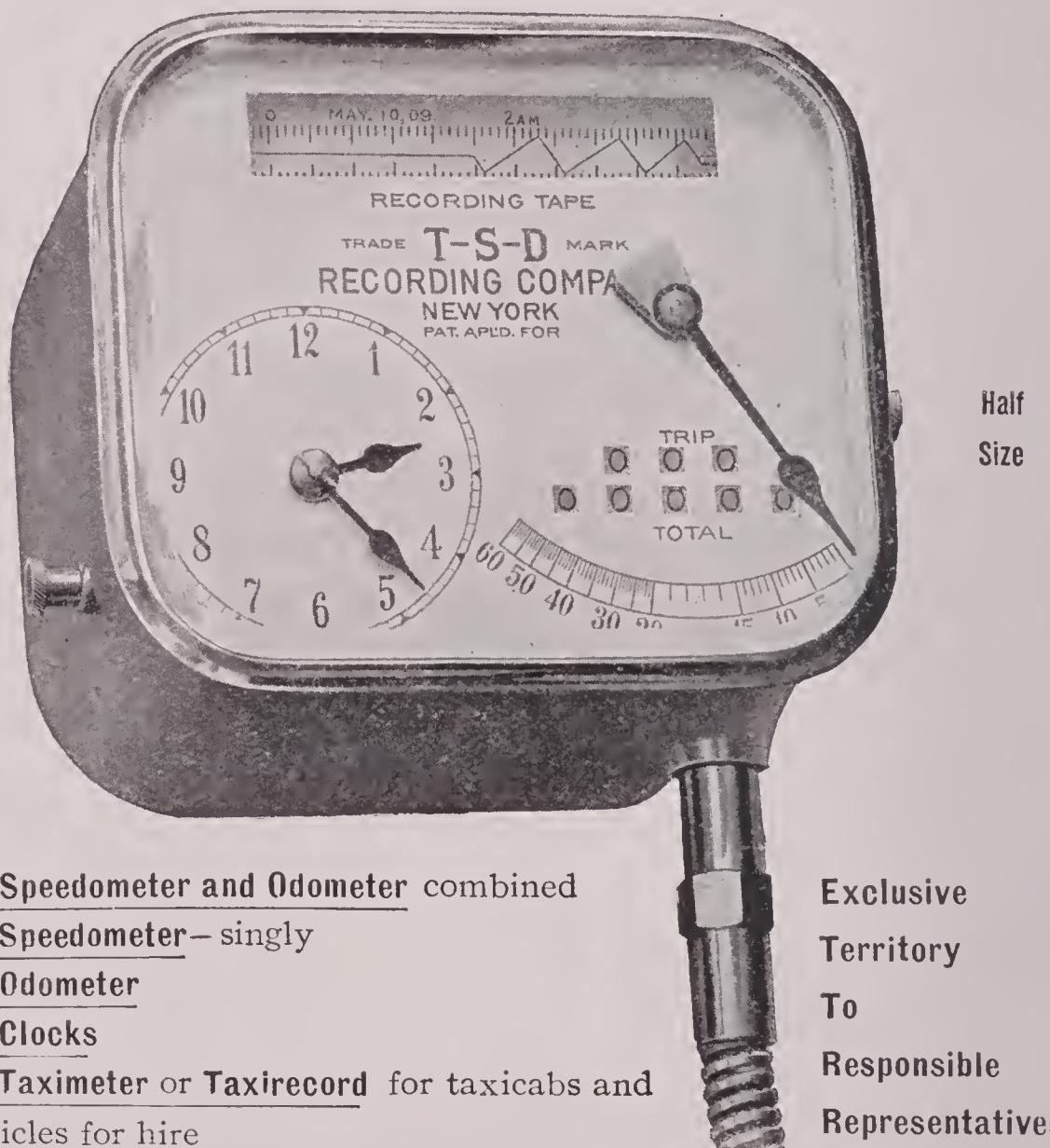
Manufacturers of best modern devices and instruments for accurately measuring **TIME**, **SPEED**, **DISTANCE**, including stops or waiting time, and permanently registering same.

Machines suitable for all kinds of vehicles—horse drawn or motor. Especially adapted for Automobiles.

**T. S. D. Combination Recorder**, containing within a highly polished brass case, securely locked, with plate glass front, a Speedometer, Odometer, Clock (eight day, full-jewelled marine movement), and recording tape sufficient for one week, on which is correctly and permanently recorded time employed, speed attained, distance travelled and stops made day or night. **Absolutely eliminates "Joy Rides."**

**T. S. D. Commercial Recorder** (for commercial vehicles), comprising clock and record tape, locked within a solid metal case, and giving a clear, permanent record of exact movement of vehicles, thus preventing or minimizing speeding or loitering.

T. S. D.  
Combination  
Recorder



Exclusive  
Territory  
To  
Responsible  
Representatives

T. S. D. Speedometer and Odometer combined

T. S. D. Speedometer—singly

T. S. D. Odometer

T. S. D. Clocks

T. S. D. Taximeter or Taxirecord for taxicabs and  
vehicles for hire

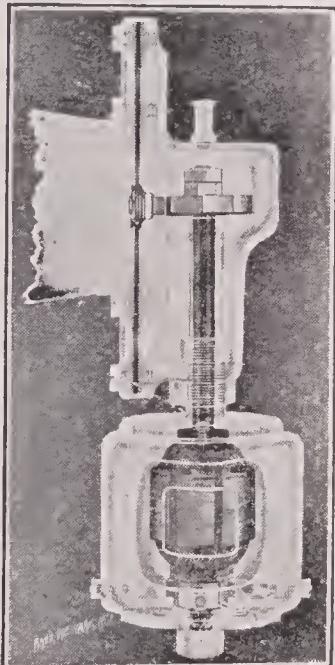
The construction of all T. S. D. Machines embodies features which mark a distinct advance in the State of the Art, and will meet all requirements of practicability, reliability, accuracy and durability, which instruments for the service intended should possess.

# THE **KLAXON**

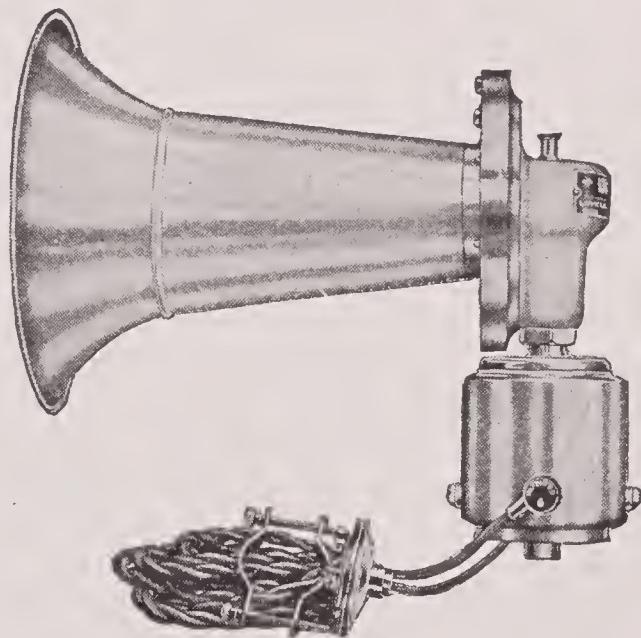
Trade Mark Reg. Patented Mar. 31-08, Jan. 19-09 (2), Feb. 2-09, May 25-09 (3)

“THE X-RAY OF SOUND”

THE “Klaxon” is a Noise machine. It is run by an electric motor and is built to run for years :: :: :: It operates from a 6 or 8-volt storage battery or 8 dry cells. It is not a horn--reed or electric--though it looks somewhat like one :: :: ::



Sectional view of KLAXON showing relative position of motor shaft, toothed wheel and vibrating diaphragm.



Type L—Long Projector

**Lovell-McConnell  
mfg. Co., *Manufacturers***

365-367 Market Street, NEWARK, N. J.

**The  
Klaxon Company**

*Sole Distributors for U. S. A.*  
1 Madison Avenue, NEW YORK

TOURISTS en route between  
**CHICAGO** and **NEW YORK**

Can secure UNIFORM LUBRICATION and FREEDOM from CARBON TROUBLES, by calling for

**ANTI-CARBON AUTO OIL**

*Made By*

**THE KEYSTONE REFINING CO.**  
**COLUMBUS, OHIO**

at any of the following FIRST-CLASS GARAGES along the route:

**CHICAGO, ILL.**

The Motor Car Supply Co., 1451-53 Michigan Ave.

**HAMMOND, IND.**

Hammond Garage Company

**CROWN POINT, IND.** }  
GARY, IND. } C. M. Baker

**VALPARAISO, IND.**

A. L. Zimmerman, 251 W. Main St.

**LAPORTE, IND.**

Auto Maintenance Co., 808 Monroe

**LOGANSPORT, IND.**

A. E. Dunn, Main Street

**PERU, IND.**—Adams & Sampsel

**KOKOMO, IND.**

J. E. Palethorpe, 20 East Sycamore

**TIPTON, IND.**

Tipton Garage and Machine Works

**WAUSEON, OHIO**

F. R. Harper

**TOLEDO, OHIO**

Atwood Garage, 2015 Monroe Street

**FREMONT, OHIO**

Fremont Auto & Repair Co., 207-09 Garrison Street

**TIFFIN, OHIO**

H. P. Klaiss, 123 East Market Street

**BELLEVUE, OHIO—E. C. Reitz**

**OBERLIN, OHIO—A. P. Cook**

**ELYRIA, OHIO—The Auto Inn**

**LORAIN, OHIO**

F. S. Rathwell, 425-27 Broadway

**WILLOUGHBY, OHIO—Star Garage**

**ASHTABULA, OHIO**

C. L. Scrivens Motor Co., 13 Spring Street

**BUFFALO, N. Y.—Chas. E. Miller, 824 Main St.**

**NIAGARA FALLS, N. Y.**

Niagara Falls Auto & Transit Co., 103 Main St.

**BATAVIA, N. Y.—Hilte & Kennedy, 24 Main St.**

**ROCHESTER, N. Y.**

Rochester Auto Supply Co., 375 Main Street

**AUBURN, IND.**

Auburn Automobile Co., 54-60 Water Street

**SYRACUSE, N. Y.**

Amos & Pierce Automobile Co.

**ALBANY, N. Y.**

Albany Garage Co., 28-30 Howard Street

**NEW YORK—Chas. E. Miller, 97 Reid Street**

By using the same grade of oil from start to finish you avoid the necessity of changing feed, and we are positive you can not start with a better oil, or one that will cause you LESS CARBON TROUBLE than our celebrated

**ANTI-CARBON AUTO OIL**

We will appreciate it if consumers will report to us any dealers who try to substitute an inferior oil for our ANTI-CARBON.

**THE KEYSTONE REFINING COMPANY  
COLUMBUS, OHIO**



The same consistency for all seasons of the year. Not affected by severe conditions of heat and cold.



## KEYSTONE GREASE

ESTABLISHED 1884

---

Holds the record for lowest friction and greatest test for endurance in the great plant of the William Cramp & Sons Ship and Engine Building Company, Philadelphia.

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ORDER IT  
NEXT TIME

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Has an established reputation in the power plant field for superiority and greatness. Ask any engineer anywhere.

Is not soluble in water like cheap grease.

ORDER IT  
NEXT TIME

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## The World's Greatest Lubricant

No. 1 Density (solid) for use in all grease cups—on axle bearings or wherever the use of a solid lubricant might be required.

No. 3 Density (semi-solid) for transmission, differential and timing gear cases.

### KEYSTONE

Lubricating  
Company  
Philadelphia

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NEW YORK  
1777 Broadway  
BOSTON  
Oliver Bldg.  
NEW ORLEANS  
612 Chartres Bldg.



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Dealers and Jobbers write  
for our Special Proposition.

# Gus Balzer

Manufacturer and  
Manufacturers Representative

Representing

## MONOGRAM CREST AND SIGN CO.

We Handle Following Goods:

Sawed and Etched Name Plates. Radiator Cap Eagles and  
Ornaments. Limousine Bouquet Holders.

We Make a Specialty of all Ornaments that are used on an Automobile

1777 Broadway

New York

The so called Tire Problem is  
no Problem at all to a raft of

# Goodrich Tire

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— USERS —

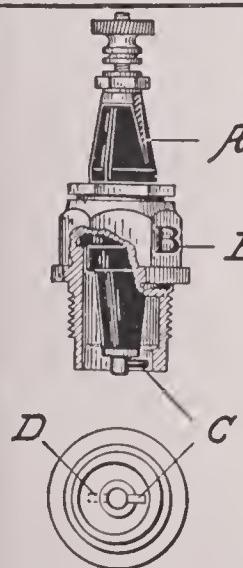
They get inexpensive pleasurable  
milage—and a good deal of it

**The B. F. Goodrich Company**  
Akron, Ohio

Branches in all large Cities

## The "Excentric" Mica Plug

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Try it and convince yourself of its  
superiority. Guaranteed for one year

**Mica Core Manufacturing Co.**

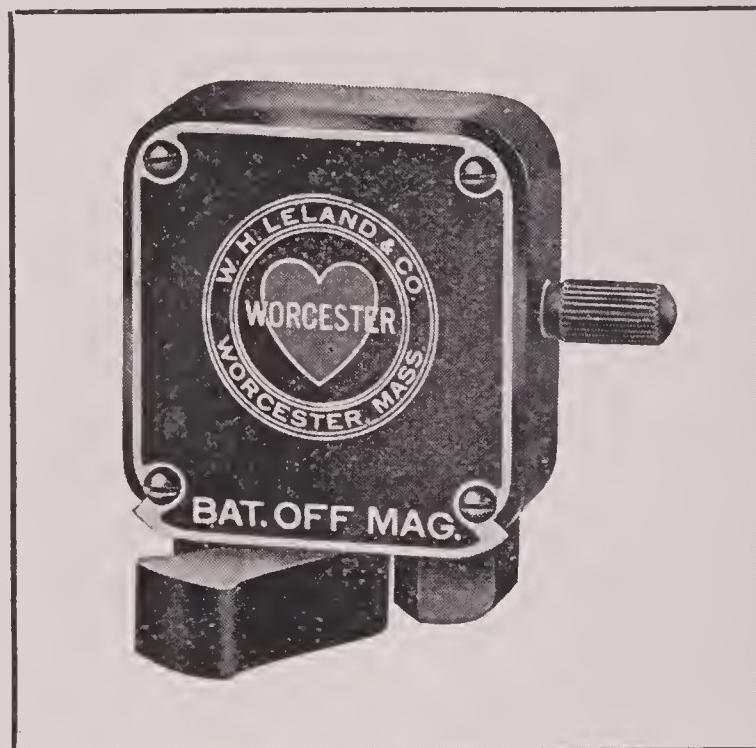
Makers of Spark Plugs, Mica  
Cores, Timers and Distributors

446 E. 166th STREET

NEW YORK CITY

# WORCESTER IGNITION SPECIALTIES

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WORCESTER COMBINATION ROTARY SWITCH

(Controller Type)

*Operated by Hand or Foot*

WORCESTER AUTOMOBILE AND MARINE COILS

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SEND FOR CATALOG

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W. H. LELAND & COMPANY

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WORCESTER :: MASSACHUSETTS

# PHOTO-AUTO MAPS

Photographs of every turn, together with a  
**Topographical Outline of Road**  
Showing Railroad Crossings, Bridges, School  
Houses and All Landmarks, with  
Accurate Distances Between

CHICAGO TO DETROIT  
DETROIT TO CHICAGO

---

Rand McNally & Company

P U B L I S H E R S

166 and 168 Adams Street  
CHICAGO

142 Fifth Avenue  
NEW YORK

© Aug. 7. 1909  
CL. A 244621  
AUG 9 1909

Aug. 10 1909  
R.A. 1  
V.B.

## Instructions for Using Photo-Auto Maps

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The best way to use the Photo-Auto Maps is to follow the route by the topographical map and refer to the photographs only to make sure that you are turning at the right place. Use your meter at all times to get the distances between turns. The distances given between turns will vary with different machines, as a slight difference in size of tires, different conditions of the roads and many other things tend to vary the register. Three meters were used and an average taken to get the distances given. The numbers in the squares and circles give the number of the photographs at the turns and the figures outside of them give the distance to the next photograph. The compass on each plate should be used to get correct directions. This map is not drawn to scale, but is made to show the turns to the best advantage. Where turns occur close together the map is enlarged and where there is a long straight run it is condensed, so do not judge distances by the appearances of the map. Go entirely by the meter readings. Distances between closest points only are given to insure the smallest variation. The distances given are the average obtained from three different makes of speedometers and a re-check by the Warner Auto-Meter.

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*Copyright 1909, by Rand McNally, & Co., Chicago*

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# To the Motorist Who is Down on His "Tire Luck"

You don't hear the man who uses Morgan & Wright tires saying much about his "tire luck," good or bad.

After he has used a pair or two, he gets out of the habit of ascribing the completion of a trip or a tour without tire trouble to good fortune. He lays it to "**Good Tires**"—nothing else. He knows that—take tires made as Morgan & Wright tires are, out of the highest grade of materials with a painstaking care in regard to the minutest details of construction, and give them proper care—tire service ceases to be a matter of chance.

He gets a confidence in his tire equipment that adds much to the enjoyment of his car, and a freedom from repair bills that is a big help to his bank account.

There is no truer saying in motordom than that—



MORGAN & WRIGHT TIRES  
ARE GOOD TIRES

Dealers everywhere sell them at the same price you are asked to pay for other brands.

Morgan & Wright, Detroit

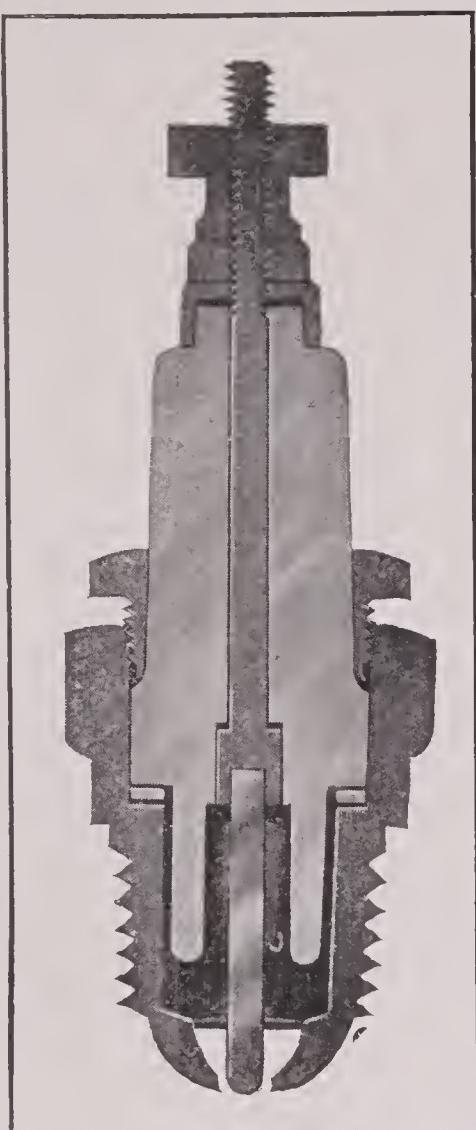
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# Simplicity, Strength

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NEW YORK CITY

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**Table of Distances Between Points  
CHICAGO TO SOUTH BEND**

FROM — TO	Chicago	Hammond	Highlands	Hobart	Wheeler	Valparaiso	Westville	La Porte	New Carlisle	South Bend
Chicago - - - - -	-	19.6	26.9	39.0	44.8	53.4	64.7	76.5	91.0	106.2
Hammond - - - - -	19.6	-	7.3	19.4	25.2	33.8	45.1	56.9	71.4	86.6
Highlands - - - - -	26.9	7.3	-	12.1	17.9	26.5	37.8	49.6	64.1	79.3
Hobart - - - - -	39.0	19.4	12.1	-	5.8	14.4	25.7	37.5	52.0	67.2
Wheeler - - - - -	44.8	25.2	17.9	5.8	-	8.6	19.9	31.7	46.2	61.4
Valparaiso - - - - -	53.4	33.8	26.5	14.4	8.6	-	11.3	23.1	37.6	52.8
Westville - - - - -	64.7	45.1	37.8	25.7	19.9	11.3	-	11.8	26.3	41.5
La Porte - - - - -	76.5	56.9	49.6	37.5	31.7	23.1	11.8	-	14.5	29.7
New Carlisle - - - - -	91.0	71.4	64.1	52.0	46.2	37.6	26.3	14.5	-	15.2
South Bend - - - - -	106.2	86.6	79.3	67.2	61.4	52.8	41.5	29.7	15.2	-

# TABLE OF DISTANCES

	South Bend	Mishawaka	Osceola	Goshen	Benton	Ligonier	Wawaka	Kendallville	Waterloo	Butler	Edgerton	Bryan	Stryker	Archbold	Wauseon	Delta	Swanton	Toledo	
South Bend	4.5	P	4.5	10.2	24.8	32.1	42.8	49.1	61.8	76.8	84.5	91.7	103.4	112.1	119.3	129.7	140.6	146.0	173.4
Mishawaka	4.5	H	5.7	5.7	20.3	27.6	38.3	44.6	57.3	72.3	80.0	87.2	98.9	107.6	114.8	125.2	136.1	141.5	168.9
Osceola	10.2		5.7	14.6	21.9	32.6	38.9	51.6	66.6	74.3	81.5	93.2	101.9	109.1	119.5	130.4	135.8	163.2	
Goshen	24.8		20.3	14.6	18.0	24.3	37.0	52.0	59.7	66.9	78.6	87.3	94.5	104.9	115.8	121.2	148.6		
Benton	32.1		27.6	21.9	7.3	10.7	17.0	29.7	44.7	52.4	59.6	71.3	80.0	87.2	97.6	108.5	113.9	141.3	
Ligonier	42.8		38.3	32.6	18.0	10.7	6.3	19.0	34.0	41.7	48.9	60.6	69.3	76.5	86.9	97.8	103.2	130.6	
Wawaka	49.1		44.6	38.9	24.3	17.0	6.3	12.7	27.7	35.4	42.6	54.3	63.0	70.2	80.6	91.5	96.9	124.3	
Kendallville	61.8		57.3	51.6	37.0	29.7	19.0	12.7	A	15.0	22.7	29.9	41.6	50.3	57.5	67.9	78.8	84.2	111.6
Waterloo	76.8		72.3	66.6	52.0	44.7	34.0	27.7	15.0	U	7.7	14.9	26.6	35.3	42.5	52.9	63.8	69.2	96.6
Butler	84.5		80.0	74.3	59.7	52.4	41.7	35.4	22.7	7.7	T	7.2	18.9	27.6	34.8	45.2	56.1	61.5	88.9
Edgerton	91.7		87.2	81.5	66.9	59.6	48.9	42.6	29.9	14.9	7.2	0	11.7	20.4	27.6	38.0	48.9	54.3	81.7
Bryan	103.4		98.9	93.2	78.6	71.3	60.6	54.3	41.6	26.6	18.9	11.7	8.7	8.7	15.9	26.3	37.2	42.6	70.0
Stryker	112.1		107.6	101.9	87.3	80.0	69.3	63.0	50.3	35.3	27.6	20.4	8.7	W	7.2	17.6	28.5	33.9	61.3
Archbold	119.3		114.8	109.1	94.5	87.2	76.5	70.2	57.5	42.5	34.8	27.6	15.9	7.2	10.4	10.4	21.3	26.7	54.1
Wauseon	129.7		125.2	119.5	104.9	97.6	86.9	80.6	67.9	52.9	45.2	38.0	26.3	17.6	10.4	P	10.4	16.3	43.7
Delta	140.6		136.1	130.4	115.8	108.5	97.8	91.5	78.8	63.8	56.1	48.9	37.2	28.5	10.9	10.9	5.4	32.8	
Swanton	146.0		141.5	135.8	121.2	113.9	103.2	96.9	84.2	69.2	61.5	54.3	42.6	33.9	21.3	10.9	5.4	32.8	
Toledo	173.4		168.9	163.2	148.6	141.3	130.6	124.3	111.6	96.6	88.9	81.7	70.0	61.3	54.1	43.7	27.4	27.4	

# TABLE OF DISTANCES

	Toledo	Genoa	Woodville	Fremont	Clyde	Bellview	Monroeville	Norwalk	Townsend	Wakeman	Kipton	Oberlin	Elyria	Ridgeville	Dover	Cleveland	
Toledo	14.1	19.4	33.3	42.3	49.9	58.4	63.5	70.2	74.7	82.5	88.4	97.8	102.6	109.7	123.7		
Genoa	14.1	P	5.3	19.2	28.2	35.8	44.3	49.4	56.1	60.6	68.4	74.3	83.7	88.5	95.6	109.6	
Woodville	19.4		5.3	13.9	22.9	30.5	39.0	44.1	50.8	55.3	63.1	69.0	78.4	83.2	90.3	104.3	
Fremont	33.3		19.2	13.9	9.0	16.6	25.1	30.2	36.9	41.4	49.2	55.1	64.5	69.3	76.4	90.4	
Clyde	42.3		28.2	22.9	9.0	7.6	16.1	21.2	27.9	32.4	40.2	46.1	55.5	60.3	67.4	81.4	
Bellview	49.9		35.8	30.5	16.6	7.6	0	8.5	13.6	20.3	24.8	32.6	38.5	47.9	52.7	73.8	
Monroeville	58.4		44.3	39.0	25.1	16.1	8.5	5.1	11.8	16.3	24.1	30.0	39.4	44.2	51.3	65.3	
Norwalk	63.5		49.4	44.1	30.2	21.2	13.6	5.1	A	6.7	11.2	19.0	24.9	34.3	39.1	46.2	60.2
Townsend	70.2		56.1	50.8	36.9	27.9	20.3	11.8	6.7	U	4.5	12.3	18.2	27.6	32.4	39.5	53.5
Wakeman	74.7		60.6	55.3	41.4	32.4	24.8	16.3	11.2	4.5	7.8	13.7	23.1	27.9	35.0	49.0	
Kipton	82.5		68.4	63.1	49.2	40.2	32.6	24.1	19.0	12.3	7.8	0	5.9	15.3	20.1	27.2	41.2
Oberlin	88.4		74.3	69.0	55.1	46.1	38.5	30.0	24.9	18.2	13.7	5.9	9.4	M	4.8	11.9	25.9
Elyria	97.8		83.7	78.4	64.5	55.5	47.9	39.4	34.3	27.6	23.1	15.3	9.4	A	7.1	21.1	
Ridgeville	102.6		88.5	83.2	69.3	60.3	52.7	44.2	39.1	32.4	27.9	20.1	14.2	4.8	7.1		
Dover	109.7		95.6	90.3	76.4	67.4	59.8	51.3	46.2	39.5	35.0	27.2	21.3	11.9	P	14.0	
Cleveland	123.7		109.6	104.3	90.4	73.8	65.3	60.2	53.5	49.0	41.2	35.0	25.9	21.1	14.0		

# TABLE OF DISTANCES

	Cleveland	Willoughby	Mentor	Painesville	Geneva	Ashtabula	Conneaut	E. Springfield	Girard	Fairview	Erie	Buffalo
Cleveland	18.8	23.5	29.7	47.5	58.0	71.8	80.4	85.9	90.2	102.1	197.2	
Willoughby	18.8	4.7	10.9	28.7	39.2	53.0	61.6	67.1	71.4	83.3	178.4	
Mentor	23.5	4.7	6.2	24.0	34.5	48.3	56.9	62.4	66.7	78.6	173.7	
Painesville	29.7	10.9	24.0	17.8	28.3	42.1	50.7	56.2	60.5	72.4	167.5	
Geneva	47.5	28.7	34.5	10.5	24.3	32.9	38.4	42.7	54.6	149.7		
Ashtabula	58.0	39.2	28.3	13.8	22.4	27.9	32.2	44.1	139.2			
Conneaut	71.8	53.0	42.1	24.3	32.9	38.4	42.7	54.6	149.7			
E. Springfield	80.4	61.6	56.9	50.7	56.2	62.4	67.1	71.4	83.3			
Girard	85.9	67.1	62.4	56.2	38.4	27.9	14.1	18.4	30.3	125.4		
Fairview	90.2	71.4	66.7	60.5	42.7	32.2	18.4	9.8	21.7	116.8		
Erie	102.1	83.3	78.6	72.4	54.6	44.1	30.3	21.7	16.2	11.9	107.0	
Buffalo	197.2	178.4	173.7	149.7	139.2	125.4	116.8	111.3	107.0	95.1		

# TABLE OF DISTANCES

	Cleveland	Erie	Wesleyville	Harbour Creek	North East	Ripley	Westfield	Portland	Brocton	Fredonia	Sheridan	Silver Creek	Irving	Buffalo
Cleveland	102.1	102.1	106.2	110.0	117.2	126.1	133.1	140.3	141.9	148.8	154.7	160.9	164.3	197.2
Erie	102.1	4.1	7.9	15.1	24.0	31.0	38.2	39.8	46.7	52.6	58.8	62.2	95.1	
Wesleyville	106.2	4.1	3.8	11.0	19.9	26.9	34.1	35.7	42.6	48.5	54.7	58.1	91.0	
Harbour Creek	110.0	7.9	3.8	7.2	16.1	23.1	30.3	31.9	38.8	44.7	50.9	54.3	87.2	
North East	117.2	15.1	11.0	7.2	8.9	15.9	23.1	24.7	31.6	37.5	43.7	47.1	80.0	
Ripley	126.1	24.0	19.9	16.1	8.9	7.0	14.2	15.8	22.7	28.6	34.8	38.2	71.1	
Westfield	133.1	31.0	26.9	23.1	15.9	7.0	7.2	8.8	15.7	21.6	27.8	31.2	64.1	
Portland	140.3	38.2	34.1	30.3	23.1	14.2	7.2	1.6	8.5	14.4	20.6	24.0	56.9	
Brocton	141.9	39.8	35.7	31.9	24.7	15.8	8.8	1.6	6.9	12.8	19.0	22.4	55.3	
Fredonia	148.8	46.7	42.6	38.8	31.6	22.7	15.7	8.5	6.9	5.9	12.1	15.5	48.4	
Sheridan	154.7	52.6	48.5	44.7	37.5	28.6	21.6	14.4	12.8	5.9	6.2	9.6	42.5	
Silver Creek	160.9	58.8	54.7	50.9	43.7	34.8	27.8	20.6	19.0	12.1	6.2	3.4	36.3	
Irving	164.3	62.2	58.1	54.3	47.1	38.2	31.2	24.0	22.4	15.5	9.6	3.4	32.9	
Buffalo	197.2	95.1	91.0	87.2	80.0	71.1	64.1	56.9	55.3	48.4	42.5	36.3	32.9	

# TABLE OF DISTANCES

	Buffalo	Batavia	Bergen	Churchville	Rochester	Pittsford	Macedon	Palmyra	Phelps	Auburn	Elbridge	Camillius	Syracuse	Albany
Buffalo	39.6	55.6	59.0	73.4	80.6	92.0	97.2	111.7	138.9	149.6	156.6	165.5	318.0	
Batavia	39.6	16.0	19.4	33.8	41.0	52.4	57.6	72.1	99.3	110.0	117.0	125.9	278.4	
Bergen	55.6	16.0	3.4	17.8	25.0	36.4	41.6	56.1	83.3	94.0	101.0	109.9	262.4	
Churchville	59.0	19.4	3.4	14.4	21.6	33.0	38.2	52.7	79.9	90.6	97.6	106.5	259.0	
Rochester	73.4	33.8	17.8	14.4	7.2	18.6	23.8	38.3	65.5	76.2	83.2	92.1	244.6	
Pittsford	80.6	41.0	25.0	21.6	11.4	16.6	31.1	58.3	69.0	76.0	84.9	237.4		
Macedon	92.0	52.4	36.4	33.0	18.6	11.4	5.2	19.7	46.9	57.6	64.6	73.5	226.0	
Palmyra	97.2	57.6	41.6	38.2	23.8	16.6	5.2	14.5	41.7	52.4	59.4	68.3	220.8	
Phelps	111.7	72.1	56.1	52.7	38.3	31.1	19.7	14.5	27.2	37.9	44.9	53.8	206.3	
Auburn	138.9	99.3	83.3	79.9	65.5	58.3	46.9	41.7	10.7	17.7	26.6	179.1		
Elbridge	149.6	110.0	94.0	90.6	76.2	69.0	57.6	52.4	37.9	15.9	168.4			
Camillius	156.6	117.0	101.0	97.6	83.2	76.0	64.6	59.4	44.9	17.7	8.9	161.4		
Syracuse	165.5	125.9	109.9	92.1	84.9	73.5	68.3	53.8	26.6	15.9	8.9	152.5		
Albany	318.0	278.4	262.4	259.0	237.4	226.0	220.8	206.3	179.1	168.4	161.4			

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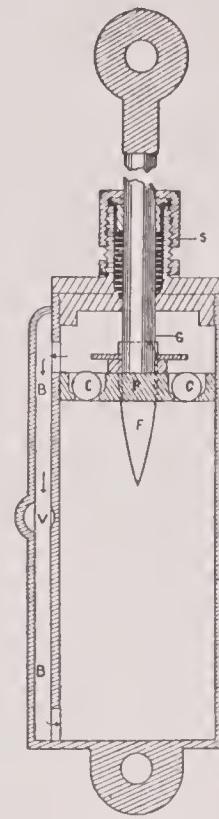
Wear on your engine and transmission,  
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“BOSTON” SHOCK ABSORBERS will give you

More power from your engine,  
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A more quiet running car.

“BOSTON” SHOCK ABSORBERS will increase

The life of your car 50%,  
The mileage of travel per gallon of gasoline.



THE BOSTON  
PAT. APPLIED FOR

## The “BOSTON”

Does not stiffen or in any way injure the action of the springs.

Does not drag on the spring under any condition.

Does not get out of order.

Does prevent you from being thrown out of the seat.

Does prevent continued bouncing after a jounce.

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PRICE, \$80.00 per set of four, with hangers fitted and already to put on.

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TABLE OF DISTANCES

	Buffalo	Syracuse	Fayetteville	Chittenango	Canastota	Oneida Castle	Kirkland	New Hartford	Utica	Herkimer	Little Falls	St. Johnsville	Fonda	Amsterdam	Schenectady	Albany		
Buffalo	<b>P</b>	165.5	172.8	180.8	187.5	193.2	207.0	211.8	215.3	231.4	238.4	256.3	276.7	287.4	303.0	318.0		
Syracuse		165.5	<b>H</b>	7.3	15.3	22.0	27.7	41.5	46.3	49.8	65.9	72.9	90.8	111.2	121.9	137.5	152.5	
Fayetteville		172.8		<b>O</b>	8.0	14.7	22.4	36.2	39.0	42.5	58.6	65.6	83.5	103.9	114.6	130.2	145.2	
Chittenango		180.8		8.0	<b>T</b>	6.7	12.4	26.2	31.0	34.5	50.6	57.6	75.5	95.9	106.6	122.2	137.2	
Canastota		187.5		14.7	6.7	<b>O</b>	5.7	19.5	24.3	27.8	43.9	50.9	68.8	89.2	99.9	115.5	130.5	
Oneida Castle		193.2		22.4	12.4	19.5	13.8	18.6	22.1	38.2	45.2	63.1	83.5	94.2	109.8	124.8		
Kirkland		207.0		36.2	26.2	24.3	18.6	4.8	8.3	24.4	31.4	49.3	69.7	80.4	96.0	111.0		
New Hartford		211.8		39.0	31.0	34.5	27.8	22.1	8.3	3.5	<b>U</b>	19.6	26.6	44.5	64.9	75.6	91.2	
Utica		215.3		49.8	42.5	42.5	34.5	27.8	22.1	8.3	<b>T</b>	16.1	23.1	41.0	61.4	72.1	106.2	
Herkimer		231.4		65.9	58.6	50.6	43.9	38.2	24.4	19.6	<b>O</b>	16.1	24.9	45.3	56.0	71.6	86.6	
Little Falls		238.4		72.9	65.6	57.6	50.9	45.2	31.4	26.6	23.1	7.0	17.9	38.3	49.0	64.6	79.6	
St. Johnsville		256.3		90.8	83.5	75.5	68.8	63.1	49.3	44.5	41.0	24.9	<b>M</b>	20.4	31.1	56.7	71.7	
Fonda		276.7		111.2	103.9	95.9	89.2	83.5	69.7	64.9	61.4	45.3	38.3	<b>A</b>	10.7	26.3	41.3	
Amsterdam		287.4		121.9	114.6	106.6	99.9	94.2	80.4	75.6	72.1	56.0	49.0	31.1	<b>P</b>	15.6	30.6	
Schenectady		303.0		137.5	130.2	122.2	115.5	109.8	96.0	91.2	87.7	71.6	64.6	56.7	<b>S</b>	15.0	15.0	
Albany		318.0		152.5	145.2	137.2	130.5	124.8	111.0	106.2	102.7	86.6	79.6	71.7				

# WINESTOCK SPARK PLUGS

(QUICK DETACHABLE)

## DON'T SKIP

Only quick detachable plug containing both terminals in the detachable member.

Absolutely will not leak compression

Positively will not work loose.

PRICE

\$1.75



"Absolutely  
Guaranteed"

Gives the hottest spark of any plug made.

Non-breakable insulation.

Adjustable spark gap—once adjusted, always adjusted.

You can't imagine the convenience of a detachable plug until you have used one, it gives you a chance to examine your spark without using a wrench.

FOR SALE BY ALL FIRST-CLASS DEALERS

**KNAPP-GREENWOOD COMPANY**

1000 Boylston Street - - - BOSTON, MASS.

# TABLE OF DISTANCES

	Albany	Rensselaer	Schodack Center	Kinderhook	Stuyvesant Falls	Hudson	Blue Store	Upper Red Hook	Red Hook	Rhinebeck	Staatsburg	Hyde Park	Poughkeepsie	New York City
Albany	1.0	7.3	20.9	24.5	33.5	43.0	49.8	52.5	58.2	64.2	68.3	74.4	149.8	
Rensselaer	1.0	6.3	19.9	23.5	32.5	42.0	48.8	51.5	57.2	63.2	67.3	73.4	148.8	
Schodack Center	7.3	6.3	13.6	17.2	26.2	35.7	42.5	45.2	50.9	56.9	61.0	67.1	142.5	
Kinderhook	20.9	19.9	13.6	3.6	12.6	22.1	28.9	31.6	37.3	43.3	47.4	53.5	128.9	
Stuyvesant Falls	24.5	23.5	17.2	9.0	18.5	25.3	28.0	33.7	39.7	43.8	49.9	125.3		
Hudson	33.5	32.5	26.2	12.6	9.5	16.3	19.0	24.7	30.7	34.8	40.9	116.3		
Blue Store	43.0	42.0	35.7	22.1	18.5	9.5	6.8	9.5	15.2	21.2	25.3	31.4	106.8	
Upper Red Hook	49.8	48.8	42.5	28.9	25.3	16.3	6.8	2.7	8.4	14.4	18.5	24.6	100.0	
Red Hook	52.5	51.5	45.2	31.6	28.0	19.0	9.5	2.7	5.7	11.7	15.8	21.9	97.3	
Rhinebeck	58.2	57.2	50.9	37.3	33.7	24.7	15.2	8.4	5.7	6.0	10.1	16.2	91.6	
Staatsburg	64.2	63.2	56.9	43.3	39.7	30.7	21.2	14.4	11.7	6.0	4.1	10.2	85.6	
Hyde Park	68.3	67.3	61.0	47.4	43.8	34.8	25.3	18.5	15.8	10.1	4.1	6.1	81.5	
Poughkeepsie	74.4	73.4	67.1	53.5	49.9	40.9	31.4	24.6	21.9	16.2	10.2	6.1	75.4	
New York City	149.8	148.8	142.5	128.9	125.3	116.3	106.8	100.0	97.3	91.6	85.6	81.5		

# **DETROIT and SOUTH BEND OR ANYWHERE**

An *abundance* of *enjoyable features* along the road, but an *over abundance* of *menacing features on the road*. Chances are a *thousand* to *one* in favor of the *menacing features* winning out—unless you squelch them.

You know that a succession of punctures and blow-outs will spoil the effect of *any trip* and ruffle the temper of a Saint—besides—tearing *big holes* in the pocket-book.

The *best move you can make*, *before taking any trip*—a block or a thousand miles—is to have your tires treated with

## **KEMIZITE**

### ***It Heals Punctures***

**The only absolute-harmless-permanent puncture healer**

***Guaranteed "Money Back" Basis***

Clean — odorless  
Not a cement  
Not gummy  
Not sticky  
Not a filler

Only small quantity needed  
Does not reduce resiliency  
Does not interfere with vulcanization  
Eliminates 75% of blow-outs  
Increases mileage

***Proportion — 5% Kemizite — 95% Air***

*Thousands* of auto owners are using **KEMIZITE** with *absolute satisfaction*. More down right enjoyment than they ever experienced with tires before, and at greatly *decreased expense*.

This is the move for *you* to make. No matter what you *remember* of the *past*—*do this now*. Investigate **KEMIZITE**—satisfy yourself. Remember a “money back” guarantee goes with it.

**AUTO TIRE=SECURITY COMPANY**

1231 Michigan Ave. = = = = Chicago

# TABLE OF DISTANCES

	New York City	Yonkers	Hastings	Dobbs Ferry	Irvington	Tarrytown	Ossining	Croton	Peekskill	Cold Spring	Fishkill Village	Wappingers Falls	Poughkeepsie	Albany	
New York City	14.2	14.2	18.7	20.2	21.4	24.5	30.6	34.3	42.1	53.5	62.7	67.8	75.4	149.8	
Yonkers			4.5	6.0	7.2	10.3	16.4	20.1	27.9	39.3	48.5	53.6	61.2	135.6	
Hastings	18.7		4.5	1.5	2.7	5.8	11.9	15.6	23.4	34.8	44.0	49.1	56.7	131.1	
Dobbs Ferry	20.2		6.0	1.5	1.2	4.3	10.4	14.1	21.9	33.3	42.5	47.6	55.2	129.6	
Irvington	21.4		7.2	2.7	1.2	3.1	9.2	12.9	20.7	32.1	41.3	46.4	54.0	128.4	
Tarrytown	24.5		10.3	5.8	4.3	6.1	9.8	17.6	29.0	38.2	43.3	50.9	125.3		
Ossining	30.6		16.4	11.9	10.4	9.2	6.1	3.7	11.5	22.9	32.1	37.2	44.8	119.2	
Croton	34.3		20.1	15.6	14.1	12.9	9.8	3.7	7.8	19.2	28.4	33.5	41.1	115.5	
Peekskill	42.1		27.9	23.4	21.9	20.7	17.6	11.5	7.8	11.4	20.6	25.7	33.3	107.7	
Cold Spring	53.5		39.3	34.8	33.3	32.1	29.0	22.9	19.2	11.4	9.2	14.3	21.9	96.3	
Fishkill Village	62.7		48.5	44.0	42.5	41.3	38.2	32.1	28.4	20.6	9.2	5.1	12.7	87.1	
Wappingers Falls	67.8		53.6	49.1	47.6	46.4	43.3	37.2	33.5	25.7	14.3	7.6	82.0	74.4	
Poughkeepsie	75.4		61.2	56.7	55.2	54.0	50.9	44.8	41.1	33.3	21.9	12.7			
Albany	149.8		135.6	131.1	129.6	128.4	125.3	119.2	115.5	107.7	96.3	87.1	82.0	74.4	

# Table of Mileage

				MILES
South Bend to	Lakeville	.	.	10.5
"	" Lapaz	.	.	16.3
"	" Plymouth	.	.	24.5
"	" Argos	.	.	32.6
"	" Rochester	.	.	44.5
"	" Perrysburg	.	.	58.1
"	" Mexico	.	.	63.9
"	" Peru	.	.	69.8
"	" Bunker Hill	.	.	78.7
"	" Miami	.	.	82.5
"	" Kokomo	.	.	93.0
"	" Sharpsville	.	.	102.8
"	" Tipton	.	.	112.5
"	" Atlanta	.	.	118.4
"	" Arcadia	.	.	122.0
"	" Cicero	.	.	125.2
"	" Noblesville	.	.	131.5
"	" Indianapolis	.	.	155.2
Indianapolis to	Noblesville	.	.	23.7
"	" Cicero	.	.	30.0
"	" Arcadia	.	.	33.2
"	" Atlanta	.	.	36.8
"	" Tipton	.	.	42.7
"	" Sharpsville	.	.	52.4
"	" Kokomo	.	.	62.2
"	" Miami	.	.	72.7
"	" Bunker Hill	.	.	76.5
"	" Peru	.	.	85.4
"	" Mexico	.	.	91.3
"	" Perrysburg	.	.	97.1
"	" Rochester	.	.	110.7
"	" Argos	.	.	122.6
"	" Plymouth	.	.	130.7
"	" Lapaz	.	.	138.9
"	" Lakeville	.	.	144.7
"	" South Bend	.	.	155.2

# Table of Distances

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	MILES
South Bend to Lakeville . . . . .	10.5
Lakeville to Lapaz . . . . .	5.8
Lapaz to Plymouth . . . . .	8.2
Plymouth to Argos . . . . .	8.1
Argos to Rochester . . . . .	11.9
Rochester to Perrysburg . . . . .	13.6
Perrysburg to Mexico . . . . .	5.8
Mexico to Peru . . . . .	5.9
Peru to Bunker Hill . . . . .	8.9
Bunker Hill to Miami . . . . .	3.8
Miami to Kokomo . . . . .	10.5
Kokomo to Sharpsville . . . . .	9.8
Sharpsville to Tipton . . . . .	9.7
Tipton to Atlanta . . . . .	5.9
Atlanta to Arcadia . . . . .	3.6
Arcadia to Cicero . . . . .	3.2
Cicero to Noblesville . . . . .	6.3
Noblesville to Indianapolis . . . . .	23.7

# TURN TO RIGHT AND STOP



If your car is not equipped with a reliable speed-indicator. No use touring without the famous

## JONES SPEEDOMETER

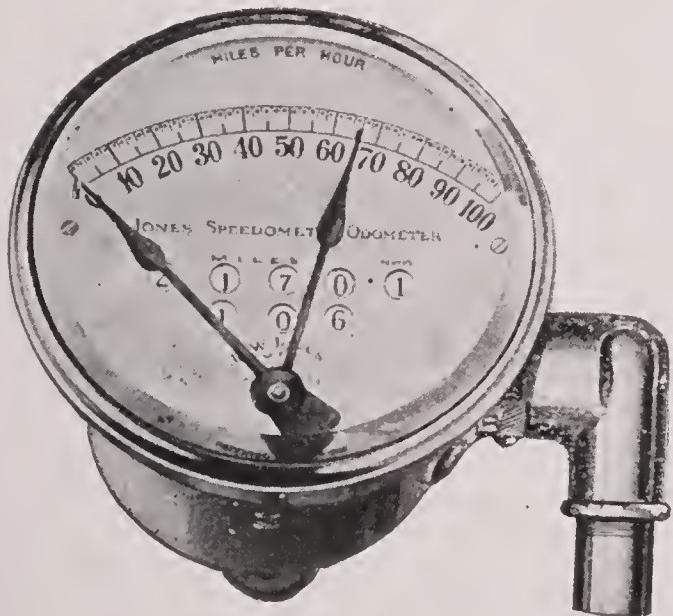
The BEST speed-indicator on the market. The PIONEER. The Winner of the R. A. C. Gold Medal for ACCURACY. The Jones is indispensable when touring because—it is absolutely reliable and dependable. It is used by the majority of motorists the world over. It is part equipment of practically every car on tour. See that you have a Jones on your dash. By means of the Odometer you can compute the distance cited on the maps—and you KNOW your speed at all times under all conditions.

*Write for folder containing  
illustrations and prices of all  
models.*

Jones Speedometer Dept.  
United Manufacturers, Inc.

Broadway and 76th Street

New York



# Table of Distances

## TOLEDO—DETROIT

	MILES
Toledo to Erie . . . . .	11.1
" " Monroe . . . . .	20.9
" " Trenton . . . . .	41.7
" " Wyandotte . . . . .	46.2
" " Detroit . . . . .	57.0
Detroit to Wyandotte . . . . .	10.8
" " Trenton . . . . .	15.3
" " Monroe . . . . .	36.1
" " Erie . . . . .	45.9
" " Toledo . . . . .	57.0
Toledo to Erie . . . . .	11.1
Erie to Monroe . . . . .	9.8
Monroe to Trenton . . . . .	20.8
Trenton to Wyandotte . . . . .	4.5
Wyandotte to Detroit . . . . .	10.8

# Table of Mileage

ALBANY—SARATOGA SPRINGS

							MILES
Albany to Cohoes	.	.	.	.	.	.	12.2
" " Waterford	.	.	.	.	.	.	14.2
" " Mechanicsville	.	.	.	.	.	.	22.6
" " Maltaville	.	.	.	.	.	.	28.6
" " Dunning Street	.	.	.	.	.	.	30.8
" " Saratoga Springs	.	.	.	.	.	.	38.6
Saratoga Springs to Dunning Street	.	.	.	.	.	.	7.8
" " " Maltaville	.	.	.	.	.	.	10.0
" " " Mechanicsville	.	.	.	.	.	.	16.0
" " " Waterford	.	.	.	.	.	.	24.4
" " " Cohoes	.	.	.	.	.	.	26.4
" " " Albany	.	.	.	.	.	.	38.6

# Table of Distances

ALBANY—SARATOGA SPRINGS

							MILES
Albany to Cohoes	.	.	.	.	.	.	12.2
Cohoes to Waterford	.	.	.	.	.	.	2.0
Waterford to Mechanicsville	.	.	.	.	.	.	8.4
Mechanicsville to Maltaville	.	.	.	.	.	.	6.0
Maltaville to Dunning Street	.	.	.	.	.	.	2.2
Dunning Street to Saratoga Springs	.	.	.	.	.	.	7.8

# VIVAX STORAGE BATTERIES



6 VOLT 80 AMPERES  
SPECIALY BUILT FOR  
LIGHTING PURPOSES

PRICE ----- \$24.00

---

WE GUARANTEE SATISFACTION

---

## Why The "VIVAX" Excels

Mechanical Strength; Perfect Insulation; Compact and Clean; No Corrosion of Terminals; Free from Mechanical Defects, or Faulty Workmanship.

The "VIVAX" Battery is especially built to withstand the constant jar of the Automobile and may be used on the heaviest truck or the lightest pleasure Vehicle.

## VIVAX IGNITION BATTERIES

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---

6 Volt 60 Amperes	\$20.00
6 Volt Special	15.00
6 Volt Junior	11.50



Manufactured by

VIVAX STORAGE BATTERY CO.

2224-2234 Michigan Avenue

CHICAGO, ILLINOIS

# Population of Towns

## CHICAGO—SOUTH BEND

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Chicago . . . .	2,049,185
Hammond . . . .	15,956
Highlands . . . .	25
Hobart . . . .	1,390
Wheeler . . . .	100
Valparaiso . . . .	6,280
Westville . . . .	468
La Porte . . . .	7,113
New Carlisle . . . .	597
South Bend . . . .	36,000

# Population of Towns

## SOUTH BEND—TOLEDO

# Population of Towns

## TOLEDO—CLEVELAND

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Toledo . . . . .	131,000
Genoa . . . . .	800
Woodville . . . . .	800
Hessville . . . . .	50
Fremont . . . . .	8,500
Clyde . . . . .	2,500
Bellview. . . . .	1,000
Monroeville . . . . .	1,200
Norwalk . . . . .	7,000
Townsend . . . . .	75
Wakeman . . . . .	300
Kipton . . . . .	100
Oberlin . . . . .	4,000
Elyria. . . . .	8,800
Ridgeville . . . . .	200
Dover . . . . .	50
Cleveland . . . . .	381,800

# Population of Towns

CLEVELAND—BUFFALO

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Cleveland, O.	.	.	.	381,768
Willoughby, O.	.	.	.	1,753
Mentor, O.	.	.	.	624
Painesville, O.	.	.	.	5,024
Geneva, O.	.	.	.	2,342
Ashtabula, O.	.	.	.	12,949
Conneaut, O.	.	.	.	7,133
West Springfield, Pa.	.	.	.	203
East Springfield, Pa.	.	.	.	591
Girard, Pa.	.	.	.	691
Fairview, Pa.	.	.	.	327
Erie, Pa.	.	.	.	52,733
Wesleyville, Pa.	.	.	.	567
Harbour Creek, Pa.	.	.	.	161
North East, Pa.	.	.	.	2,068
Ripley, N.Y.	.	.	.	810
Westfield, N.Y.	.	.	.	2,430
Portland, N.Y.	.	.	.	552
Brocton, N.Y.	.	.	.	900
Fredonia, N.Y.	.	.	.	4,127
Sheridan, N.Y.	.	.	.	100
Silver Creek, N.Y.	.	.	.	1,944
Irving, N.Y.	.	.	.	50
Buffalo, N.Y.	.	.	.	352,387

# Population of Towns

## BUFFALO—SYRACUSE

# Population of Towns

## SYRACUSE—ALBANY

# Population of Towns

## ALBANY—NEW YORK CITY

# Population of Towns

ALBANY—SARATOGA SPRINGS

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Albany	.	.	.	98,360
Cohoes	.	.	.	24,183
Waterford	:	.	.	3,146
Mechanicsville	.	.	.	4,695
Maltaville	:	.	.	92
Dunning Street	.	.	.	50
Saratoga Springs	.	.	.	12,538

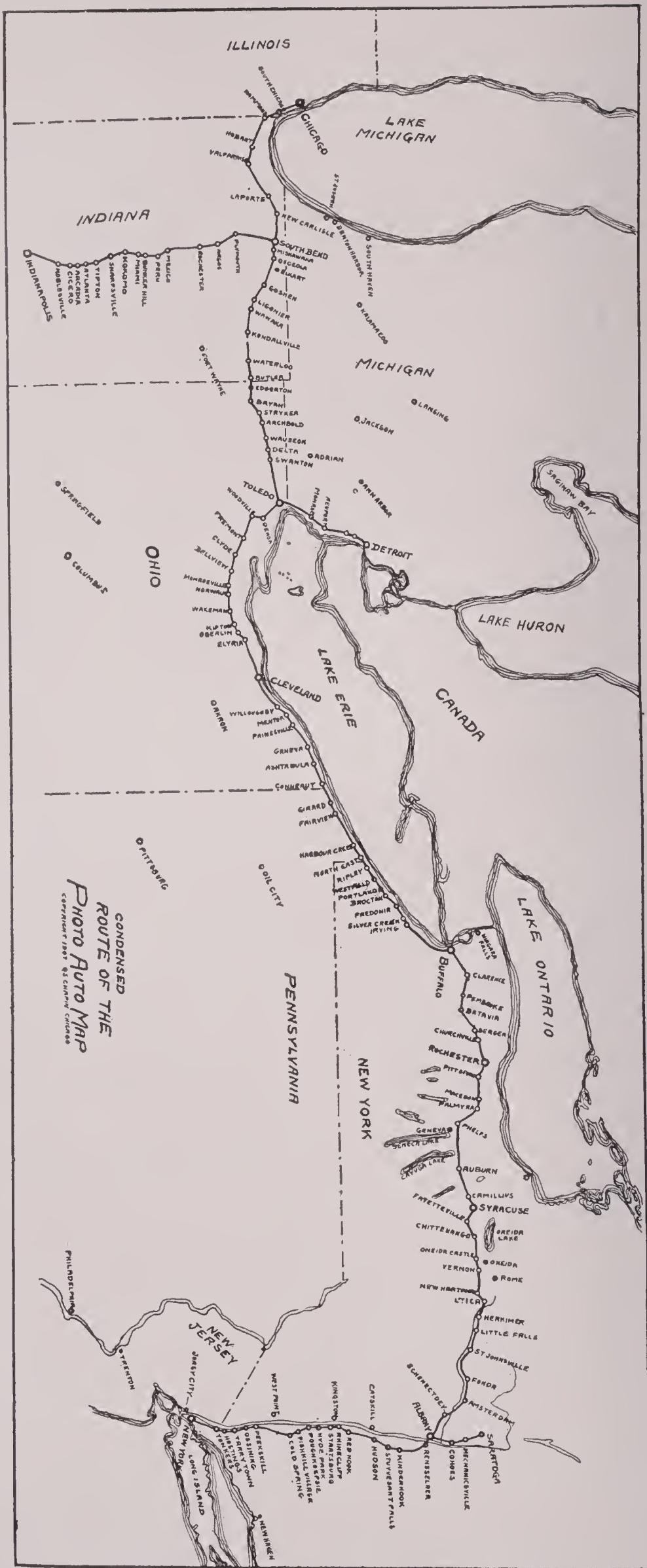
# Population of Towns

## SOUTH BEND—INDIANAPOLIS

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South Bend	.	.	.	.	.	.	36,000
Lapaz	.	.	.	.	.	.	400
Plymouth	.	.	.	.	.	.	3,656
Argos	.	.	.	.	.	.	1,307
Rochester	.	.	.	.	.	.	3,421
Perrysburg	.	.	.	.	.	.	700
Mexico	.	.	.	.	.	.	500
Peru	.	.	.	.	.	.	11,648
Bunker Hill	.	.	.	.	.	.	568
Miami	.	.	.	.	.	.	390
Kokomo	.	.	.	.	.	.	12,019
Sharpsville	.	.	.	.	.	.	650
Tipton	.	.	.	.	.	.	3,764
Atlanta	.	.	.	.	.	.	1,500
Arcadia	.	.	.	.	.	.	1,413
Cicero	.	.	.	.	.	.	1,603
Noblesville	.	.	.	.	.	.	4,792
Indianapolis	.	.	.	.	.	.	219,154

# Condensed Route of the Photo-Auto Maps



# PHOTO-AUTO MAPS

No. 1



# NEW SOUTHERN HOTEL

MICHIGAN AVENUE AND 13th STREET, CHICAGO, ILL.

STARTING POINT of Photo-Auto Maps in Chicago, Ill. is The New Southern Hotel, situated so convenient to "Automobile Row," it is really considered the very best Hotel in Chicago for automobile tourists. A more delightful place for visitors in Chicago could not be conceived. Their every convenience and comfort is studiously provided for. Splendid Cafe, Restaurant and Grill Rooms in connection. Good garage accommodations may be had one block south of Hotel.

Memo.

PHOTO-AUTO MAPS—CHICAGO TO SOUTH BEND, IND.

No. 2



Turn LEFT and go East from Michigan Avenue on 33rd Street.  
Next turn South Park Avenue, four-tenths of a mile.

Memo .....

No. 3



Turn RIGHT and go South to statue of Washington and  
entrance to Washington Park, two miles.

No. 4



### WASHINGTON PARK

STRAIGHT AHEAD to Park Refectory Building, five-tenths  
of a mile.

No. 5



### REFECTORY BUILDING ON RIGHT.

Turn LEFT, and keep right at first three drives on left  
At administration buildings, with tall chimneys on left, turn right and keep ahead to extreme southeast corner of park; an amusement park adjoins on right.

Turn LEFT, leave park, crossing trolley on Cottage Grove Avenue, and continue due East upon Midway Drive, pass under Illinois Central Railroad viaduct, straight ahead to Jackson Park. At red-tiled boat building ahead, upon entering park, turn right.

Jackson Park



urn LEFT, small police box on right. At next drive on left, turn right. At red-tiled rest building on right, turn right. At drive beyond building, turn left.

memo

Jackson Park



urn RIGHT to Jeffrey Avenue. Lagoon on left. Three large chimneys can be seen some distance ahead on left after leaving park; real estate sign on right. Keep straight South upon Jeffrey Avenue. Next photo two miles.

No. 6



Turn LEFT on 83rd Street. Do not cross trolley on South Chicago Avenue on right. Follow 83rd Street to Baltimore Avenue at end of street. Next photo one mile.

Memo.....

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No. 7



Turn RIGHT, Baltimore Avenue. Next photo one block

PHOTO-AUTO MAPS—CHICAGO TO SOUTH BEND, IND.

No. 8



Turn RIGHT, Exchange Avenue. Next photo at 92d Street, South Chicago, one mile.

Memo.....

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No. 9



Turn LEFT, 92d Street, South Chicago. Follow trolley to bridge. Next photo six-tenths of a mile.

No. 10



Turn RIGHT, cross bridge, follow trolley to sharp corner Avenue L. Leave trolley, keep ahead on macadam, looking out for high cross walks. Cross railroad at East Side Station on left. Turn left one short block, then right, turning left with trolley upon Indianapolis Avenue. Next photo one and two-tenths miles.

Memo .....

No. 11



Turn LEFT and go South-East. Ewing Avenue and Indianapolis Avenue. Next turn two and one-tenths miles.

No. 12



Turn RIGHT and go South. Next turn at car barns, three and nine-tenths miles.

Memo .....

No. 13



Turn LEFT, East. Car barns on right, go one block East and turn to right, South, follow street car tracks to Sibley Street, Hammond, one and one-tenth miles. The Majestic Hotel Cafe is on Homan Avenue, one hundred feet north of Sibley Street, on left hand side of street. This cafe is open day and night and offers to automobile parties the parlor and toilet facilities of the Majestic Hotel which is first-class in every particular.

No. 14



## HAMMOND

Turn LEFT, East. Turn left from Homan Avenue to Sibley Street. Half a block before turn, on the left side of the street is the Majestic Hotel and Cafe, the best in Hammond. Next turn one mile.

Memo .....

No. 15



Turn RIGHT, South, Lafayette School on left. Next turn one and three-tenths miles.

No. 16



Turn LEFT, East. All four corners vacant. Next turn five-tenths of a mile at ice house.

Memo .....

No. 17



Turn RIGHT, South. Saloon on left at turn. Next turn two and three-tenths miles.

No. 18



Turn LEFT, East. Next turn at Highlands, two and three tenths miles. Road to right and south leads to Crow Point and Cedar Lake.

Memo .....

No. 19



HIGHLANDS

Turn RIGHT, South, then East. Go one hundred feet south do not cross tracks, turn east passing factory and grocery. Next turn seven and nine-tenths miles.

PHOTO-AUTO MAPS—CHICAGO TO SOUTH BEND, IND.

No. 20



urn LEFT, East. Follow wires. Next photo Hobart, three  
and two-tenths miles.

[emo -----

No. 21



HOBART

urn LEFT, South. Next turn two-tenths of a mile.

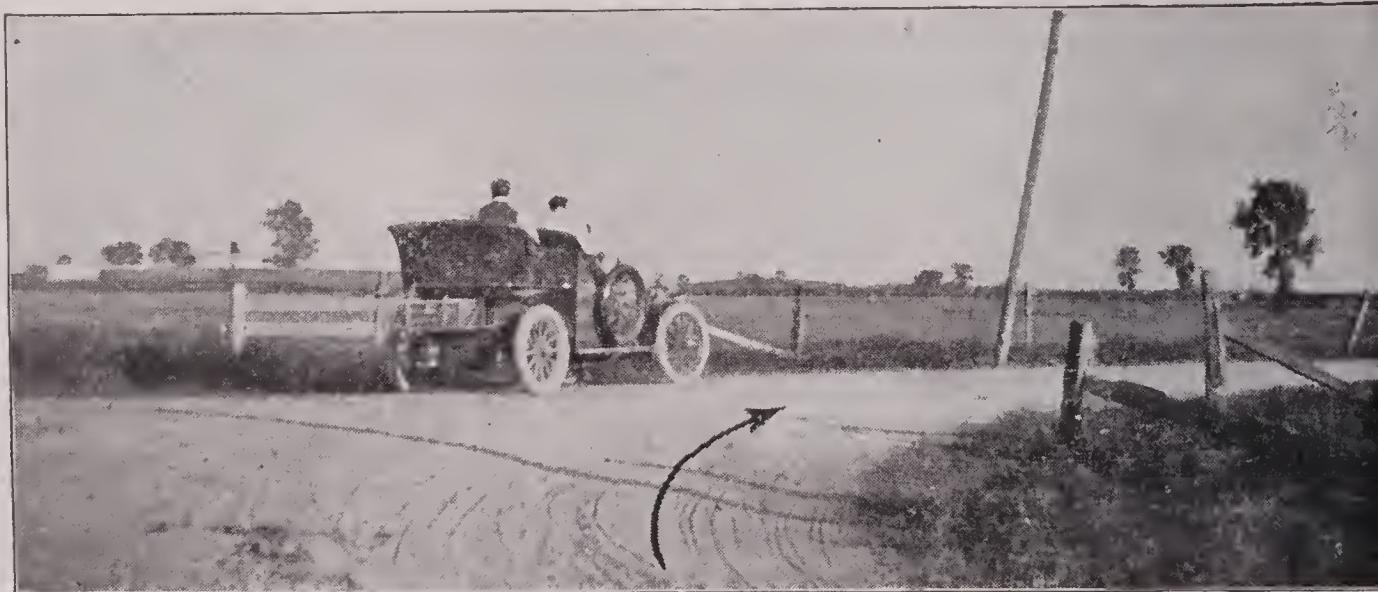
No. 22



Turn LEFT, North-East. After passing R. R. depot, turn right to street's end, then to left to street's end, then to right. Next photo three and six-tenths miles.

Memo .....

No. 23



Turn RIGHT, South. Large barn on left. Follow wire  
Next turn one mile.

No. 24



Make "S" turn and continue going south. Follow wires. Next photo Wheeler, six-tenths of a mile.

Memo .....

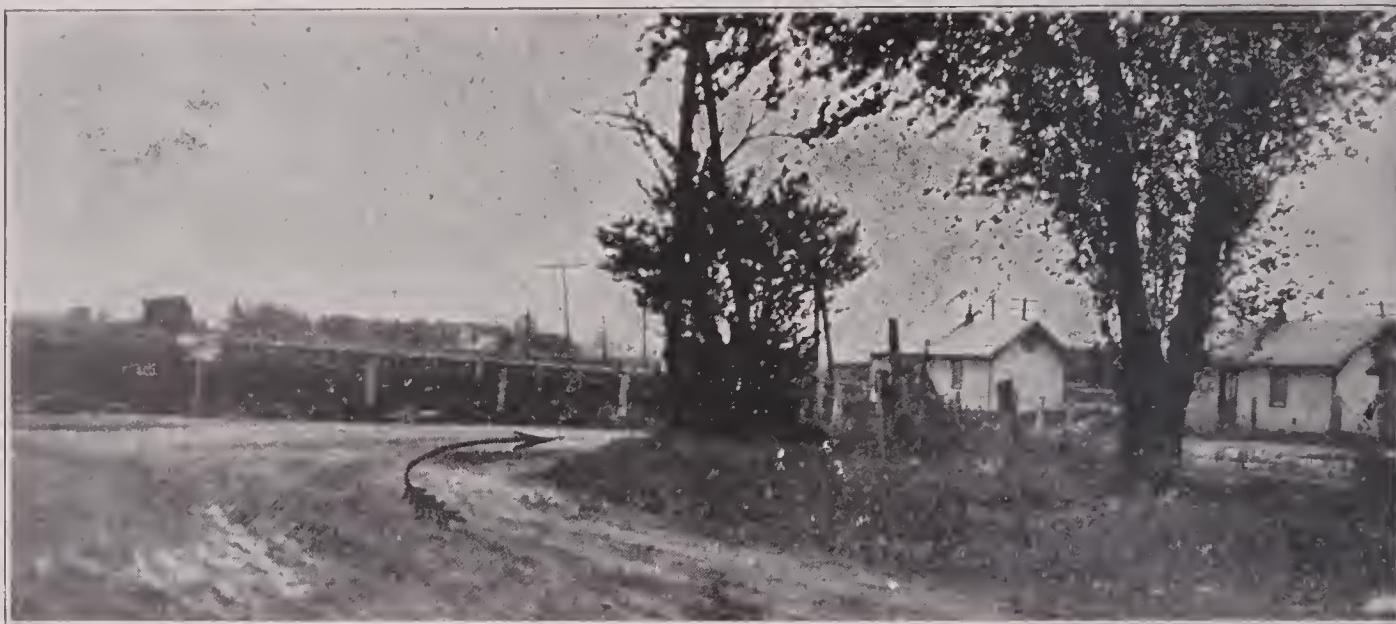
No. 25



WHEELER

Turn LEFT, South-East. Next turn five-tenths of a mile.  
Reduce speed and avoid trouble with authorities.

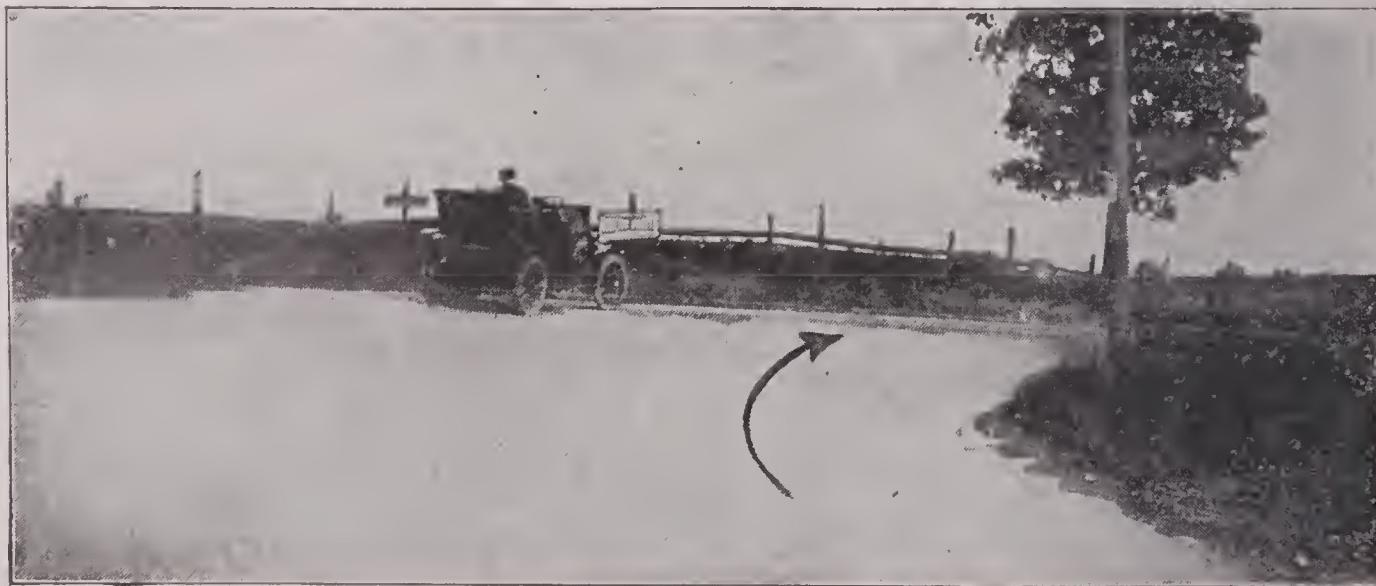
No. 26



Turn RIGHT, leaving Wheeler on "S" turn, continuing East  
Next photo four and seven-tenths miles at end of road.

Memo .....

No. 27



Turn RIGHT, South. Red barns and wind mill on right  
Next turn two and three-tenths miles at Valparaiso.

No. 28



### VALPARAISO

Turn RIGHT, East, Main Street, keep straight ahead through town. Next photo top of hill, one and two-tenths miles. HOTEL LAFAYETTE six tenths of a mile, on right side of street, one block this side of Court House. This hotel is the best between Chicago and South Bend. Special meal arrangements can be made by long distance telephone 991. One block before hotel is reached is Zimmerman's garage—expert machinists always ready for service. After hours ring bell on side office door.

No. 29



Turn RIGHT, South, go one hundred and fifty feet to next street, then turn left and east. Next turn two and six-tenths miles.

No. 30



Turn LEFT, North-East, cross roads. Next turn one and three-tenths miles, after crossing small bridge.

Memo .....

No. 31



Turn RIGHT, East, after crossing small bridge. Next phot at foot of sand hill, seven-tenths of a mile.

No. 32



STRAIGHT AHEAD, East. Next photo two-tenths of a mile at top of hill.

memo .....

No. 33



Take LEFT road. Next photo two miles.

PHOTO-AUTO MAPS—CHICAGO TO SOUTH BEND, IND.

No. 34



Take RIGHT hand road, North-East. Next photo leaving Westville three miles.

Memo .....

No. 35



WESTVILLE

Turn RIGHT, South. Go one hundred and fifty feet and turn left and east. Next photo eight miles. The north and south road at photo 35 leads direct to Michigan City.

PHOTO-AUTO MAPS—CHICAGO TO SOUTH BEND, IND.

No. 36



TRAIGHT AHEAD, left road. Follow poles with most wires. Next photo one and three-tenths miles.

emo -----

No. 37



urn LEFT, North. Follow the wires. Next photo nine-tenths of a mile.

No. 38



Turn RIGHT, East. Small lake on left, half a block distant  
large hole on left after turning. Go two blocks then tur  
left and straight ahead to Main Street. Go straight throug  
town, passing Court House. Next photo three and two  
tenths miles. For Automobile Maintenance Garage turn to  
right one block beyond Court House and go one half block.  
This garage is well equipped and is open day and night.

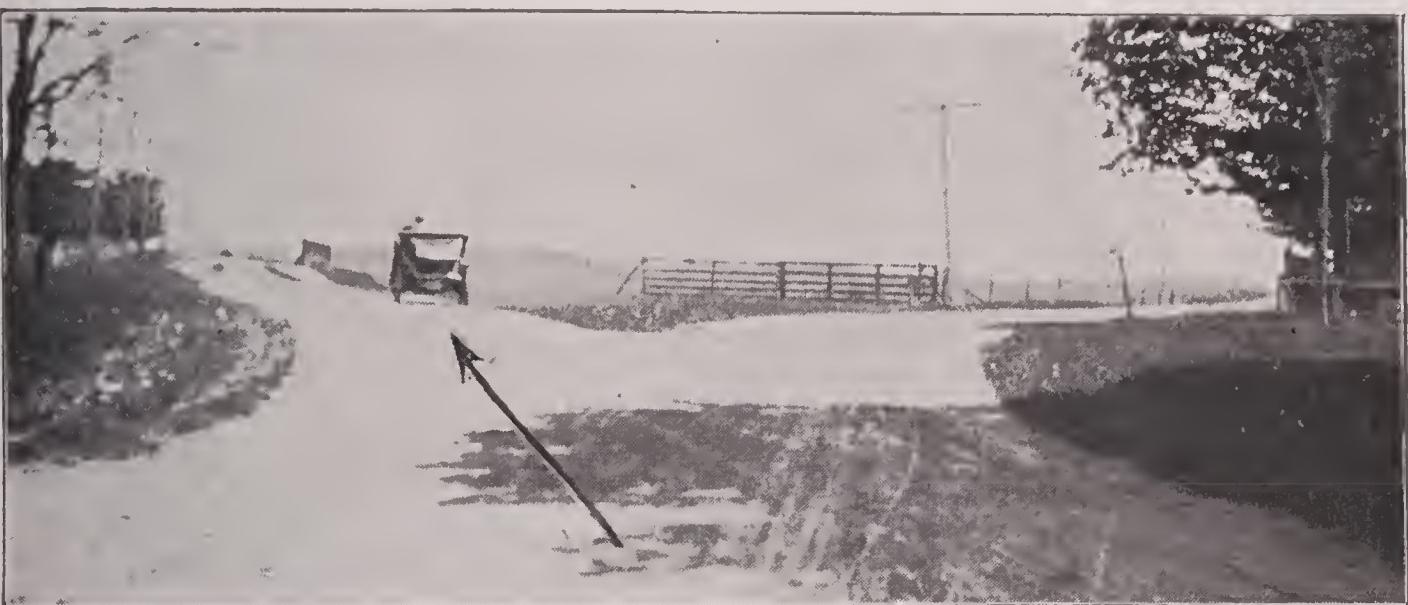
Memo .....

No. 39



Take LEFT hand road. Follow poles with most wires. Ne  
photo four and five-tenths miles.

No. 40



STRAIGHT AHEAD, North-East. Next photo South Bend twenty and five-tenths miles. Before coming to South Bend New Carlisle is passed, five and two-tenths miles. Follow the wires.

Memo .....

No. 41



### SOUTH BEND

Turn RIGHT, South. Turn from La Salle Street into Main Street, go two blocks to Hotel Oliver.

No. 42



## HOTEL OLIVER, SOUTH BEND, IND.

This hotel is one of the best encountered between Chicago and New York. Every facility possible is provided for the comfort of its guests. Auto parties given special attention. Next photo (No. 43) at this corner.

## Memo



## THE TWENTIETH CENTURY GARAGE SOUTH BEND, IND.

located one block west of Hotel Oliver, and half a block south on right-hand side of Lafayette Street. This garage is equipped with a first-class machine shop and special attention is given to tourists.

Iemo

No. 43



Turn LEFT from Main Street into Washington Street at Hotel Oliver. Next photo two blocks.

No. 44



Turn RIGHT and South-East from Washington Street into Vistula Avenue. Mishawaka four and five-tenths miles  
Next photo seven and two-tenths miles.

Memo .....

No. 45



Take RIGHT road at fork. Follow wires. Next photo in Osceola, two and nine-tenths miles.

PHOTO-AUTO MAPS--SOUTH BEND TO TOLEDO.

No. 46



OSCEOLA

Turn RIGHT at end of road and cross tracks; then turn left and continue East. Dunlap eight and six-tenths miles. Next photo in Goshen, thirteen and seven-tenths miles.

Memo .....

No. 47



GOSHEN

Turn LEFT and cross bridge. Next photo at Main Street, four-tenths of a mile.

No. 48



### GOSHEN

Turn RIGHT into Main Street. Follow the car tracks. Goshen Automobile Company garage one-half block—the best in Goshen for supplies and repairs. The Hascal Hotel one block—this is the best hotel in Goshen. Next photo five-tenths of a mile.

Memo .....

No. 49



Turn LEFT and East from Main Street into Madison Street.  
Next photo at end of road, six-tenths of a mile.

PHOTO-AUTO MAPS—SOUTH BEND TO TOLEDO.

No. 50



Turn RIGHT and South at end of road. Next photo five miles.

Memo \_\_\_\_\_

No. 51



Turn LEFT and South-East. Follow wires. Benton one and six-tenths miles. Next photo five and eight-tenths miles.

PHOTO-AUTO MAPS—SOUTH BEND TO TOLEDO.

No. 52



Turn RIGHT and South. Follow wires. Next photo six-tenths of a mile.

Memo

No. 53



Turn LEFT and East. School on left of turn. Follow most wires. Next photo in Ligonier, five and nine-tenths miles

No. 54



LIGONIER

Turn RIGHT and South into Main Street. Next photo at fountain, three-tenths of a mile.

emo -----

No. 55



Take LEFT street at fountain. Next photo one-tenth of a mile.

PHOTO-AUTO MAPS—SOUTH BEND TO TOLEDO.

No. 56



Turn LEFT from Main Street. Next photo at end of road one and two-tenths miles.

Memo \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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\_\_\_\_\_

No. 57



Turn RIGHT and South at end of road. Follow wires. Next photo two-tenths of a mile.

No. 58



urn LEFT and East. Follow wires. Next photo at end of road, three and two-tenths miles.

emo

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No. 59



urn RIGHT and South at end of road. Next photo in Wawaka, one and eight-tenths miles.

PHOTO-AUTO MAPS—SOUTH BEND TO TOLEDO.

No. 60



WAWAKA

Turn RIGHT and South. Red brick church on left. Follow wires. Next photo seven-tenths of a mile.

Memo .....

No. 61



Turn LEFT and East. Follow wires. Next photo at end road, four and one-tenth miles.

PHOTO-AUTO MAPS- SOUTH BEND TO TOLEDO.

No. 62



urn LEFT at end of road and cross bridge; then turn right and continue East. Brimfield three-tenths of a mile. Next photo six and one-tenth miles.

memo -----  
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No. 63



continue straight EAST on right-hand road. Leave wires.  
Next photo one and two-tenths miles.

No. 64



Turn RIGHT into Kendallville. Next photo six-tenths  
a mile.

Memo .....

No. 65



### KENDALLVILLE

Turn LEFT from Main Street into Mitchell Street. ...  
photo at end of street, six-tenths of a mile.

PHOTO-AUTO MAPS--SOUTH BEND TO TOLEDO.

No. 66



urn LEFT and North at end of street. Next photo two-tenths of a mile.

emo -----

No. 67



urn RIGHT and East. Next photo three and three-tenths miles.

PHOTO-AUTO MAPS--SOUTH BEND TO TOLEDO.

No. 68



Turn RIGHT and South. Follow wires. Sedan two miles  
Next photo nine and four-tenths miles.

Memo .....

No. 69



Turn RIGHT and South entering Waterloo. Brick telephone  
station on left. Next photo, Waterloo, one mile.

PHOTO-AUTO MAPS—SOUTH BEND TO TOLEDO.

No. 70



WATERLOO

urn LEFT and East. Next photo at end of road, three and one-tenth miles.

memo -----  
-----  
-----

No. 71



urn LEFT and go fifty feet, then turn right and continue East. Follow wires. Next photo at end of road, one and seven-tenths miles.

No. 72



Turn LEFT at end of road and cross tracks. Follow wires  
Butler three and four-tenths miles. Next photo at end  
road, six and five-tenths miles.

Memo .....

No. 73



Turn LEFT and North at end of road. Follow wires. Next  
photo five-tenths of a mile.

No. 74



Turn RIGHT and East just after crossing tracks. Next photo at end of road in Edgerton, three and six-tenths miles.

Memo .....

No. 75



EDGERTON

Turn RIGHT and cross tracks; then turn left and continue East. Next photo at end of street, three-tenths of a mile.

PHOTO-AUTO MAPS—SOUTH BEND TO TOLEDO.

No. 76



Turn LEFT at end of road. Go one hundred and fifty feet  
turn right and continue East. Next photo at end of road  
two and eight-tenths miles.

Memo .....

No. 77



Turn LEFT at end of road. Go one hundred and fifty feet  
turn right and continue East. Next photo five and one  
tenth miles.

PHOTO-AUTO MAPS—SOUTH BEND TO TOLEDO.

No. 78



Turn LEFT and North. School house on right after turning.  
Next photo two and one-tenth miles.

Memo .....

No. 79



Turn RIGHT and North-East. School on left. Follow wires.  
Next photo in Bryan, one and six-tenths miles.

No. 80

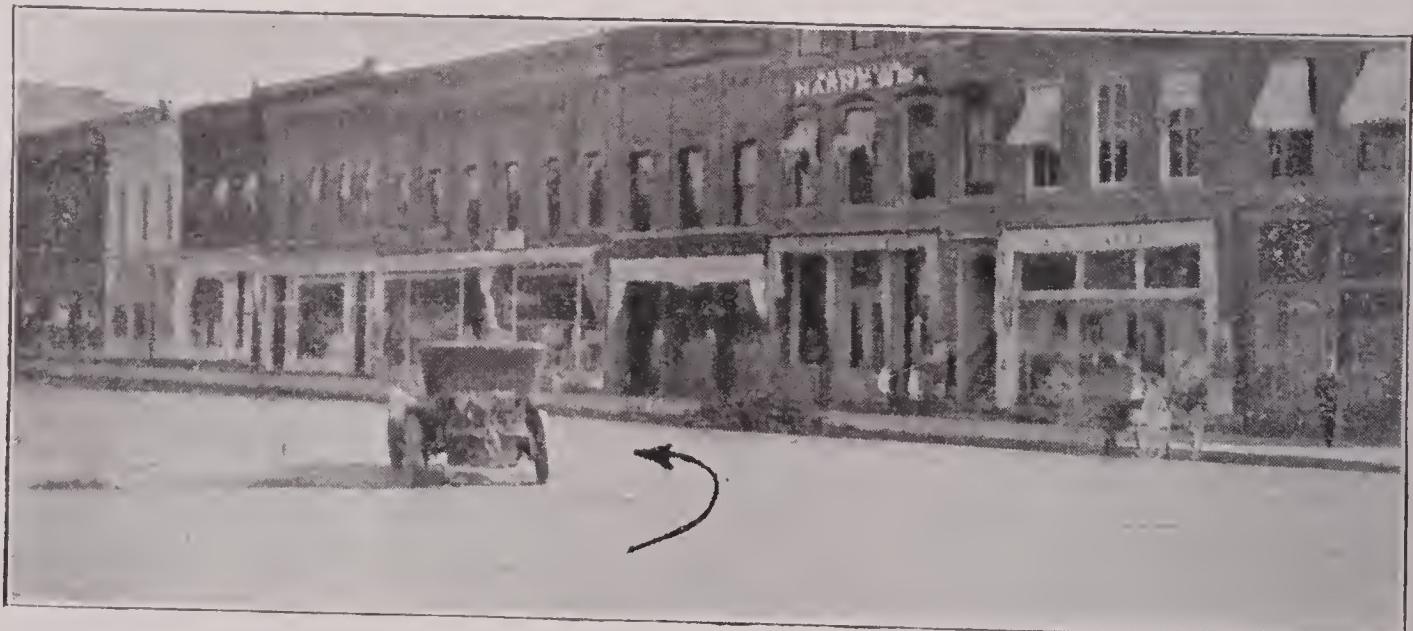


BRYAN

Turn RIGHT and East. Church on left before turning. Next photo two blocks.

Memo

No. 81



Turn LEFT into Main Street. Court House on left. Hotel Christman, the best hotel in Bryan, two blocks on the left-hand side of the street. Next photo three blocks.

No. 82



Turn RIGHT and East one block north of Hotel Christman.  
Next photo at end of road, eight-tenths of a mile.

Memo .....

No. 83



Turn LEFT and North at end of road. Next photo two-tenths of a mile.

PHOTO-AUTO MAPS--SOUTH BEND TO TOLEDO.

No. 84



Turn RIGHT and North-East. Next photo two and two-tenths miles.

Memo

No. 85



Turn RIGHT and East. Follow wires. Stryker four and nine-tenths miles. Next photo at end of road, eight and seven-tenths miles.

PHOTO-AUTO MAPS—SOUTH BEND TO TOLEDO.

No. 86



Turn LEFT at end of road. Go fifty feet, then turn right and continue East. Next photo at end of road, nine-tenths of a mile.

Memo

No. 87



Turn LEFT and North at end of road. Next photo one and five-tenths miles.

PHOTO-AUTO MAPS—SOUTH BEND TO TOLEDO.

No. 88



Turn RIGHT and East just after crossing tracks. Next photo at end of road in Archbold, one mile.

Memo .....

No. 89



ARCHBOLD

Turn LEFT and North at end of road in Archbold. Next photo one and four-tenths miles.

PHOTO-AUTO MAPS—SOUTH BEND TO TOLEDO.

No. 90



urn RIGHT and East. School on left of turn. Next photo in Wauseon, nine miles.

emo

No. 91



WAUSEON

urn LEFT and North into Main Street. Park on right before turning. Next photo at end of road, one mile.

PHOTO-AUTO MAPS—SOUTH BEND TO TOLEDO.

No. 92



Turn RIGHT and East at end of road. Next photo at end of road three and six-tenths miles.

Memo .....

No. 93



Turn RIGHT at end of road. Cross tracks; then turn left and continue East. Next photo one mile.

PHOTO-AUTO MAPS—SOUTH BEND TO TOLEDO.

No. 94



urn LEFT and North. Schoolhouse on left, church on right.  
Next photo one mile.

[memo]

No. 95



Turn RIGHT and East into first road after crossing railroad tracks. Delta two and one-tenth miles. Next photo entering Swanton, nine and one-tenth miles.

PHOTO-AUTO MAPS—SOUTH BEND TO TOLEDO.

No. 96

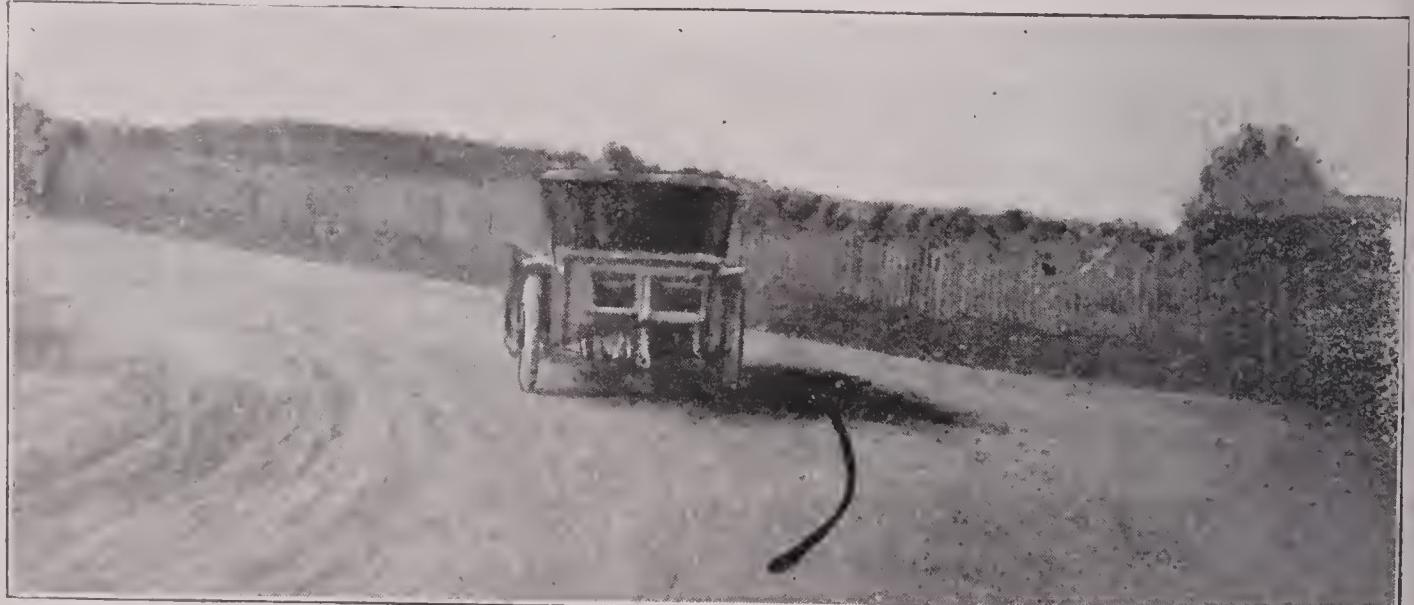


SWANTON

Turn LEFT and North entering Swanton. Next photo at end of road, two and nine-tenths miles.

Memo .....

No. 97



Turn LEFT and West at end of road. Follow wires. Next photo five-tenths of a mile.

PHOTO-AUTO MAPS—SOUTH BEND TO TOLEDO.

No. 98



Turn RIGHT and North. Follow the wires. Next photo two and eight-tenths miles.

Memo .....

No. 99



Turn RIGHT and East. Next photo three-tenths of a mile.

PHOTO-AUTO MAPS--SOUTH BEND TO TOLEDO.

No. 100



Turn LEFT and North. Next photo one mile.

Memo .....

No. 101



Turn RIGHT and East. Large red brick church on right, cemetery on left. Next photo sixteen and five-tenths miles.

PHOTO-AUTO MAPS—SOUTH BEND TO TOLEDO.

No. 102



Turn RIGHT and South-East. Follow wires. Next photo, Toledo, three and eight-tenths miles. Atwood's garage, one of the best in the west, is on the right-hand side of the street after entering the city.

Memo .....

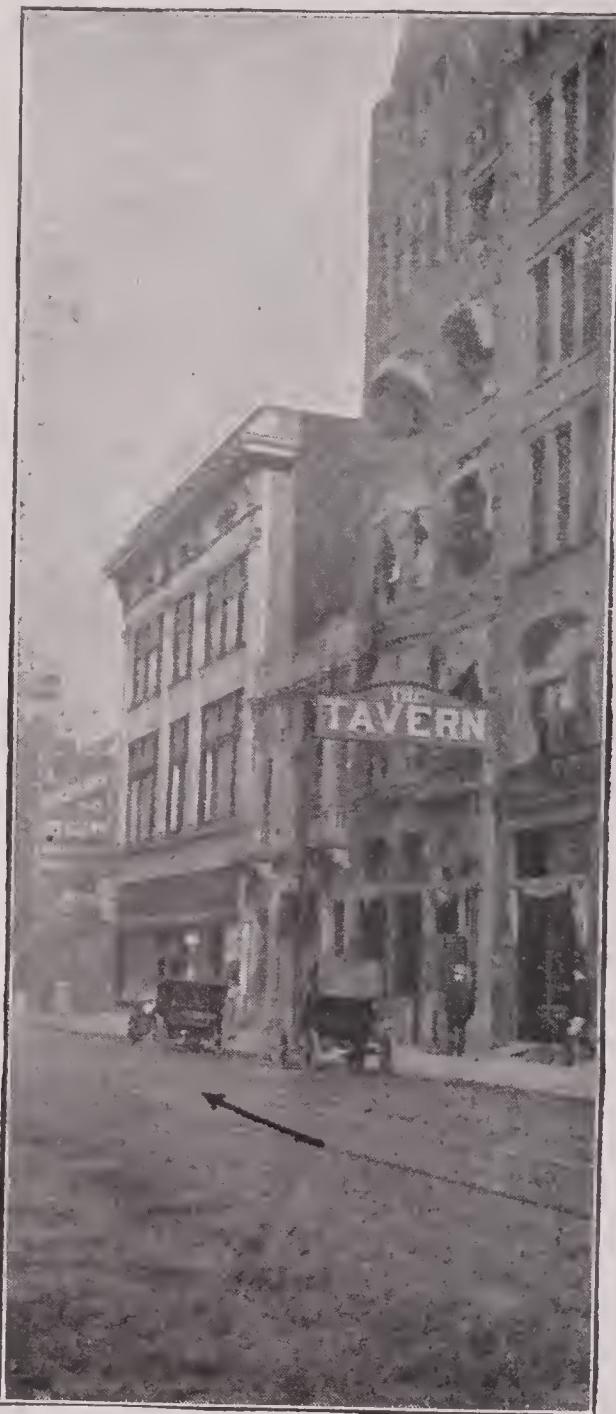
No. 103



TOLEDO

Turn RIGHT from Monroe Street into St. Clair Street. Next photo two and one-half blocks.

No. 104



### THE TAVERN, TOLEDO, OHIO

STARTING POINT for run from Toledo to Cleveland. This is the best Hotel in Toledo for the accommodation of tourists. It is run on the European plan, with a fine Cafe and Grill Room in connection. Leave the Tavern on the RIGHT. Next photo (No. 105) two and one-half blocks.

Memo

# PHOTO-AUTO MAPS

TOLEDO TO DETROIT  
DETROIT TO TOLEDO

PHOTO-AUTO MAPS--TOLEDO TO DETROIT.



ATWOOD GARAGE  
TOLEDO, OHIO

The best garage in the West. 2815 Monroe Street. Sundries, repairing and charging. Leave the tavern on the LEFT, go two and one-half blocks down St. Clair Street and turn right into Monroe Street. Atwood Automobile Company on Monroe Street near Bancroft Street. Agents for the Franklin, Elmore and Pope-Hartford.

Memo .....

PHOTO-AUTO MAPS—TOLEDO TO DETROIT.

No. 1B



**THE TAVERN, TOLEDO, OHIO**

This is the best Hotel in Toledo for the accommodation of tourists. It is run on the European plan, with a fine Cafe and Grill Room in connection. Leave the Tavern on the LEFT. Next photo one-half block.

Memo \_\_\_\_\_

PHOTO-AUTO MAPS—TOLEDO TO DETROIT.

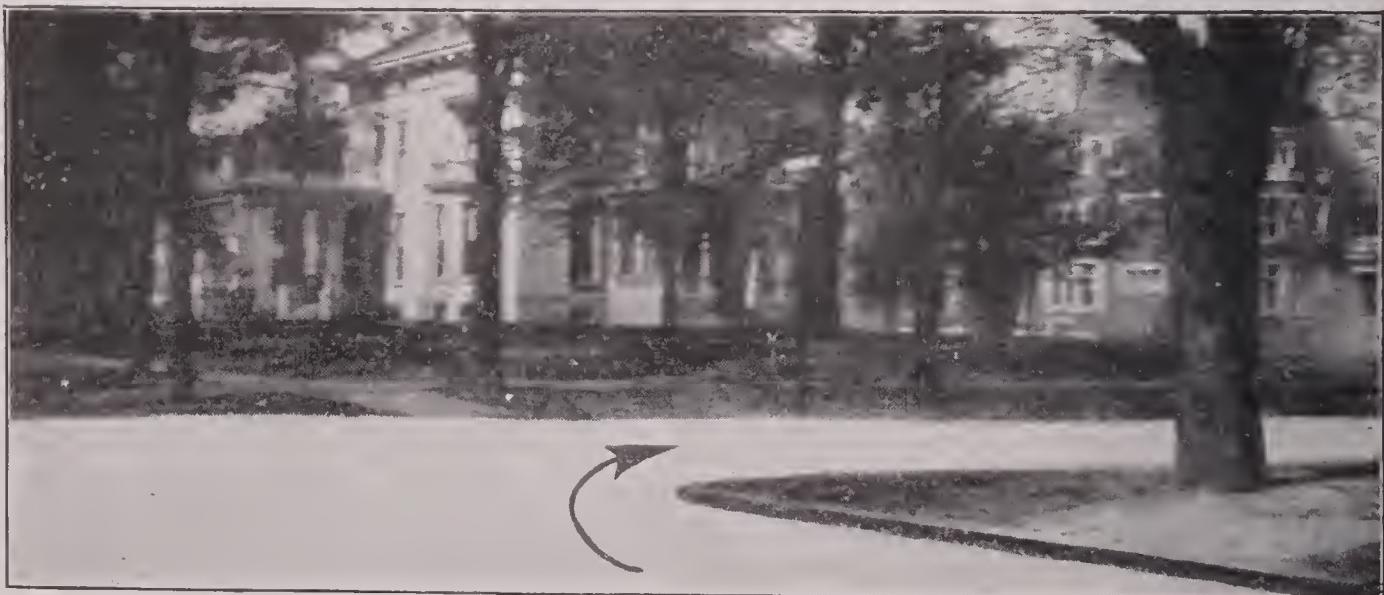
No. 2B



Turn RIGHT from St. Clair Street into Madison Avenue  
Next photo one and two-tenths miles.

Memo .....

No. 3B



Turn RIGHT and North from Woodruff Avenue into Collingwood Avenue. Next photo in Monroe, nineteen and seven-tenths miles.

No. 4B



MONROE

Turn RIGHT and East at end of street. Power house on left after turning. Next photo eight-tenths of a mile.

Memo .....

No. 5B



Turn LEFT and North before going over second railroad crossing. Two railroad bridges on right. Next photo seven-tenths of a mile.

PHOTO-AUTO MAPS—TOLEDO TO DETROIT.

No. 6B



Turn RIGHT and North-East. Follow most wires. Next photo, Neuport, seven and two-tenths miles.

Memo .....

No. 7B



NEUPORT

Turn slightly to RIGHT and cross bridge. Church on left.  
Next photo five and four-tenths miles

PHOTO-AUTO MAPS--TOLEDO TO DETROIT.

No. 8B



Turn slightly to LEFT after crossing bridge. Follow wires.  
Next photo, Trenton, six and four-tenths miles.

Memo .....

No. 9B



TRENTON

Turn RIGHT and East on entering Trenton. Next photo  
two-tenths of a mile.

PHOTO-AUTO MAPS—TOLEDO TO DETROIT.

No. 10B



Turn LEFT into Main Street. Wyandotte four and five-tenths miles. Next photo in Detroit, twelve and six-tenths miles.

Memo \_\_\_\_\_

No. 11B



DETROIT

Turn LEFT from Jefferson Street into Clark Street. Follow car tracks. Next photo three-tenths of a mile.

PHOTO-AUTO MAPS—TOLEDO TO DETROIT.

No. 12B



Turn RIGHT from Clark Street into Fort Street. Next photo at Campus Martius and Cadillac Square, two and four-tenths miles.

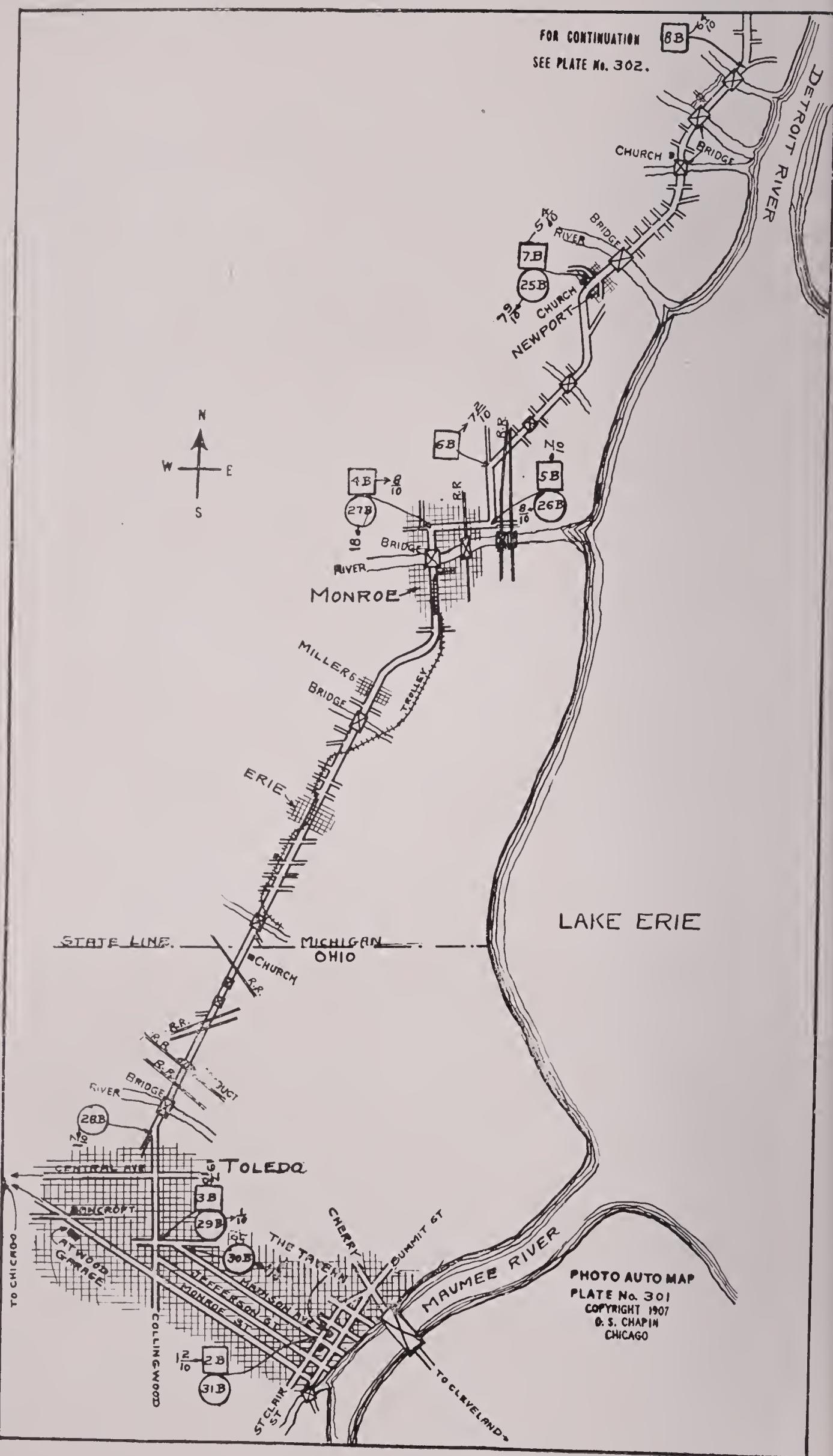
Iemo \_\_\_\_\_

No. 13B



CENTER OF CITY.

FOR CONTINUATION  
SEE PLATE NO. 302.



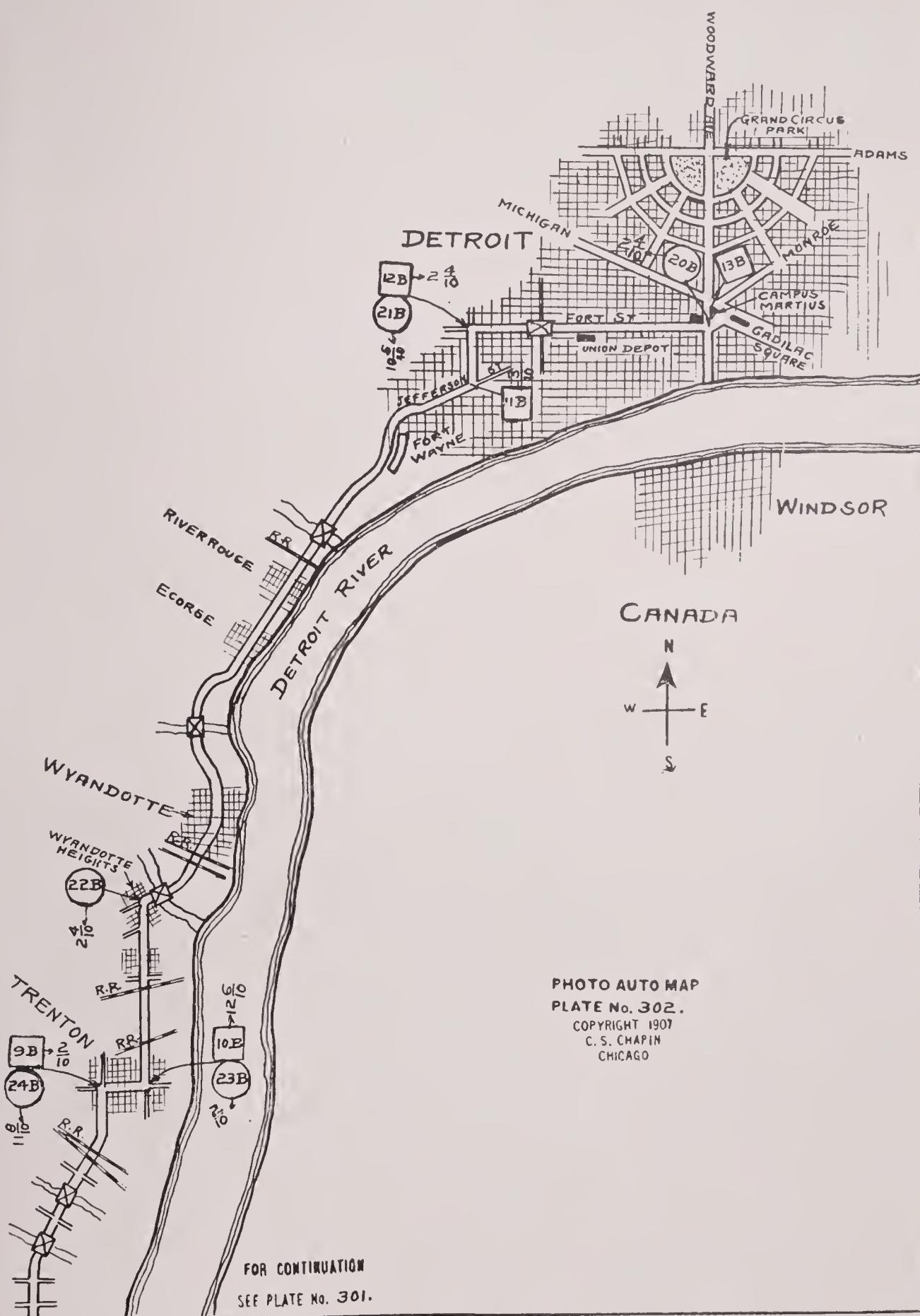


PHOTO-AUTO MAPS—DETROIT TO TOLEDO.

No. 20B



DETROIT

Center of city. Go WEST on Fort Street. Next photo two and four-tenths miles.

Memo .....

No. 21B



Turn LEFT from Fort Street into Clark Street. Bathing springs on right before turning. Wyandotte eight and four-tenths miles. Next photo in Wyandotte Heights, ten and five-tenths miles.

PHOTO-AUTO MAPS—DETROIT TO TOLEDO.

No. 22B



**WYANDOTTE HEIGHTS**

Turn LEFT and South. Follow car tracks and wires. Next photo in Trenton, two and four-tenths miles.

Memo .....

No. 23B



**TRENTON**

Turn RIGHT and leave Main Street one block after passing hotel. Next photo two-tenths of a mile.

PHOTO-AUTO MAPS—DETROIT TO TOLEDO.

No. 24B



Turn LEFT and South. Next photo in Neuport, eleven and eight-tenths miles.

Memo .....

No. 25B



NEUPORT

Turn slightly to LEFT. Church on right of turn. Next photo seven and nine-tenths miles.

PHOTO-AUTO MAPS—DETROIT TO TOLEDO.

No. 26B



Turn RIGHT and West at end of road. River on left after turning. Next photo in Monroe, eight-tenths of a mile.

Memo .....

No. 27B



MONROE

Turn LEFT and South. Power house on right before turning, school on right after turning. Next photo eighteen miles.

PHOTO-AUTO MAPS—DETROIT TO TOLEDO.

No. 28B



Turn LEFT and South at fork. Follow car tracks. Next photo in Toledo, one and seven-tenths miles.

Memo .....

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No. 29B



TOLEDO

Turn LEFT from Collingwood Avenue into Woodruff. Next photo one block.

PHOTO-AUTO MAPS—DETROIT TO TOLEDO.

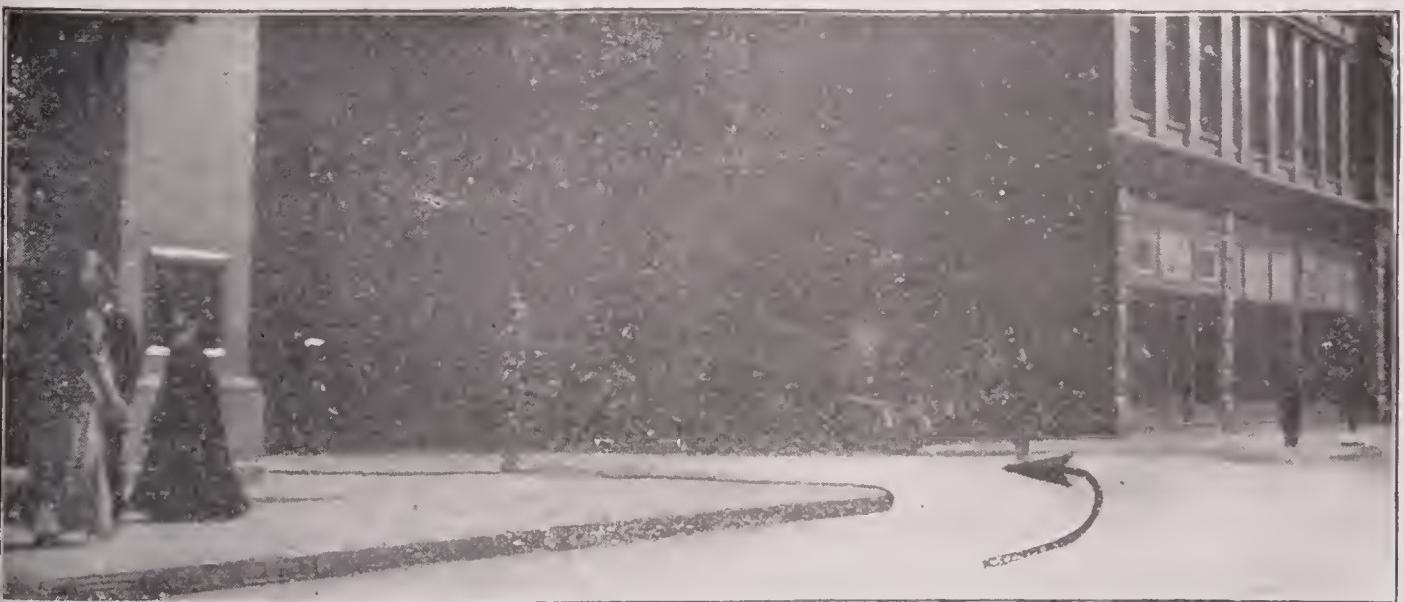
No. 30B



Turn RIGHT from Woodruff Avenue into Madison Avenue.  
Next photo one and one-tenth miles.

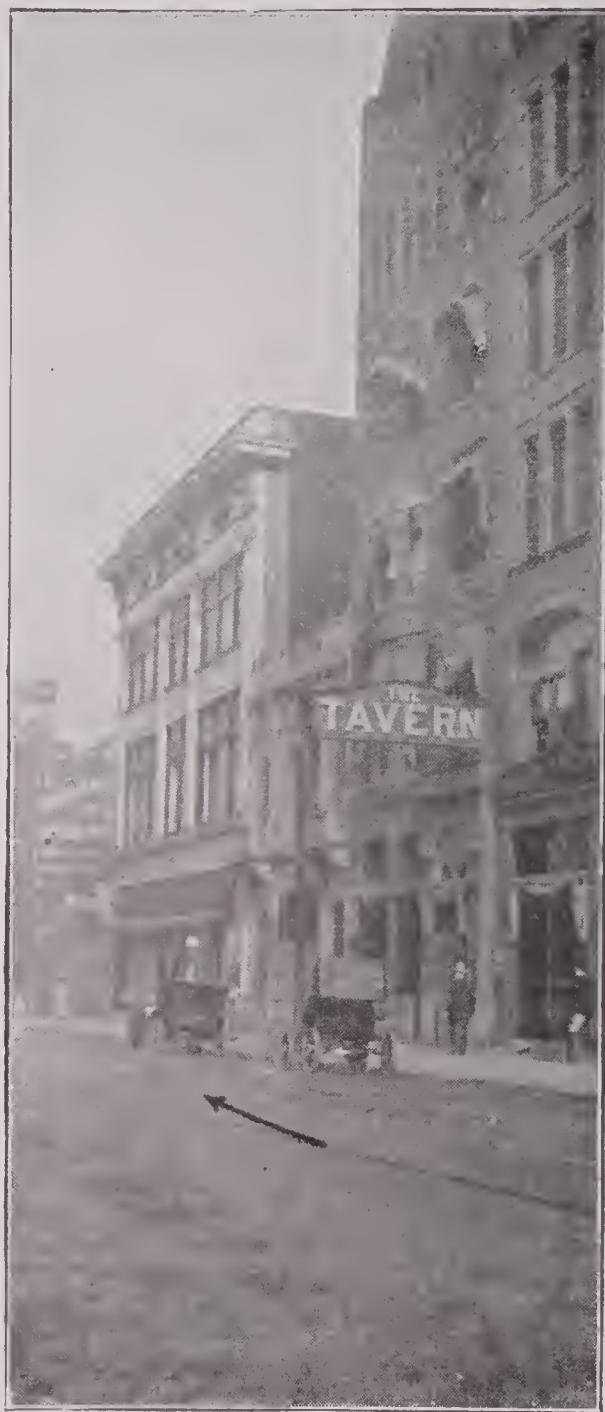
Memo \_\_\_\_\_

No. 31B



Turn LEFT from Madison Avenue into St. Clair Street. The  
Tavern one-half block.

No. 32B

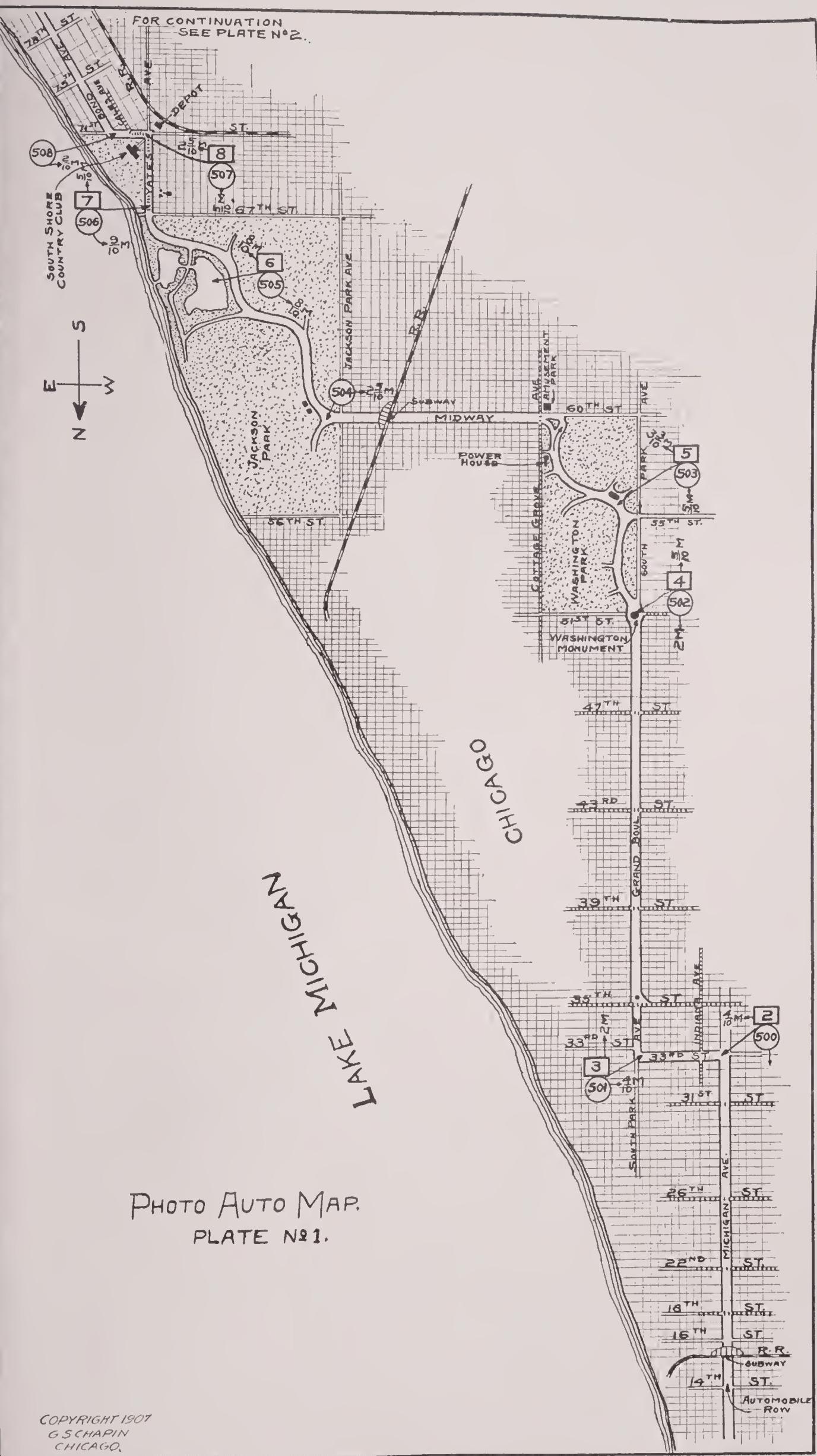


### THE TAVERN, TOLEDO, OHIO

This is the best Hotel for the accommodation of tourists.

It is run on the European plan and has a fine Cafe and Grill Room in connection.

Memo .....



FOR CONTINUATION  
SEE PLATE N° 3

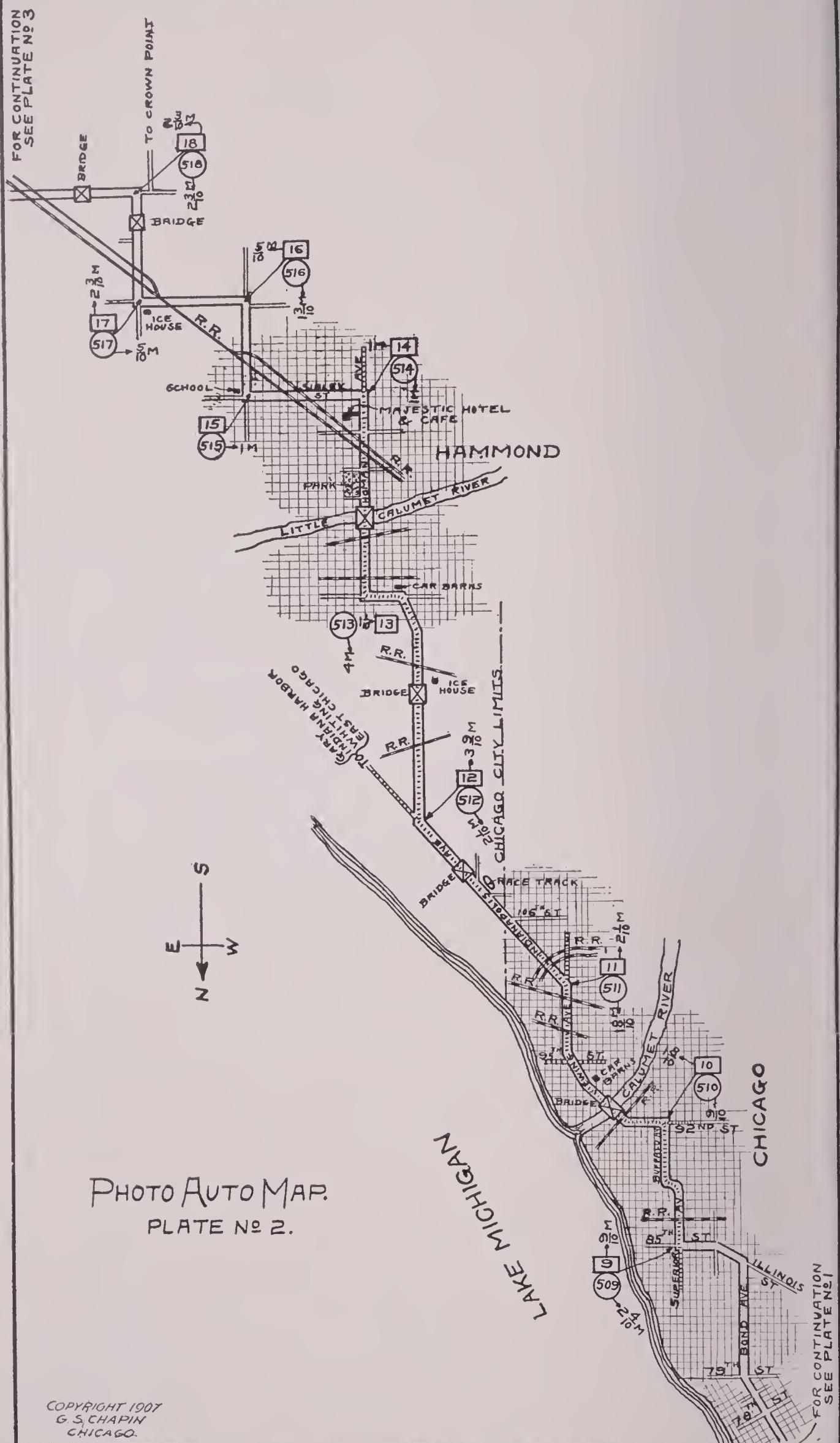
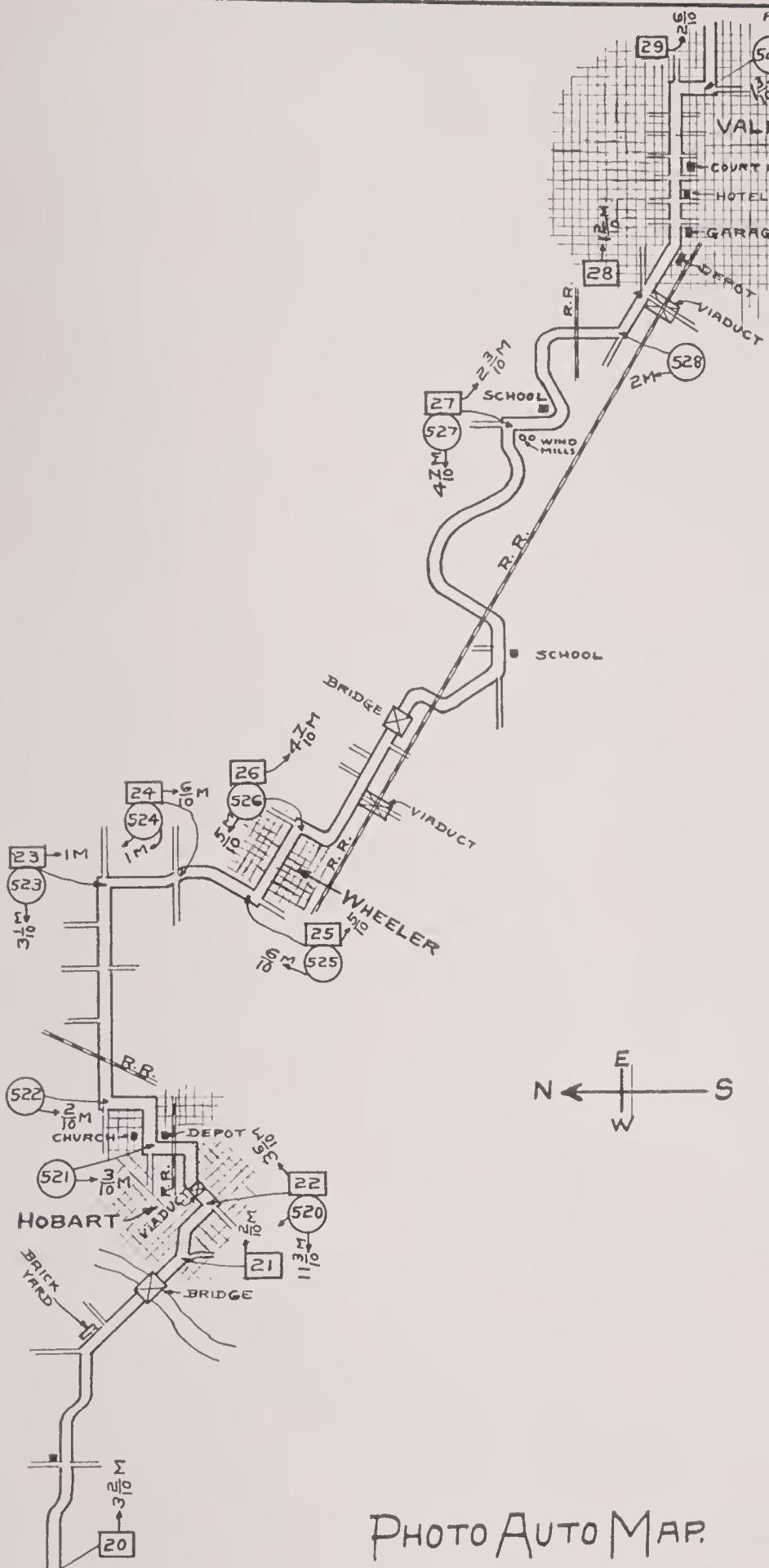


PHOTO AUTO MAP.  
PLATE No 2.

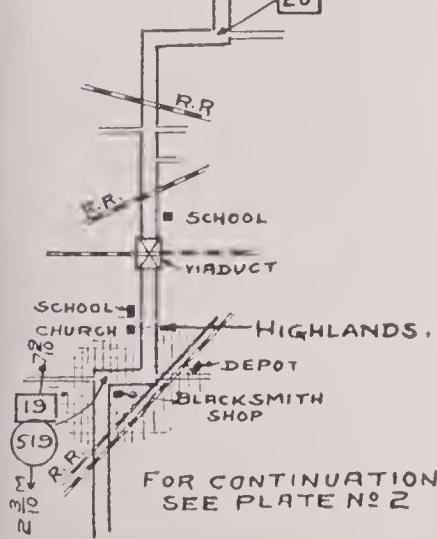
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G. S. CHAPIN  
CHICAGO.

FOR CONTINUATION  
SEE PLATE No. 4.



# PHOTO AUTO MAP.

PLATE N<sup>o</sup> 3.



FOR CONTINUATION  
SEE PLATE N° 2

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G S CHAPIN  
CHICAGO.

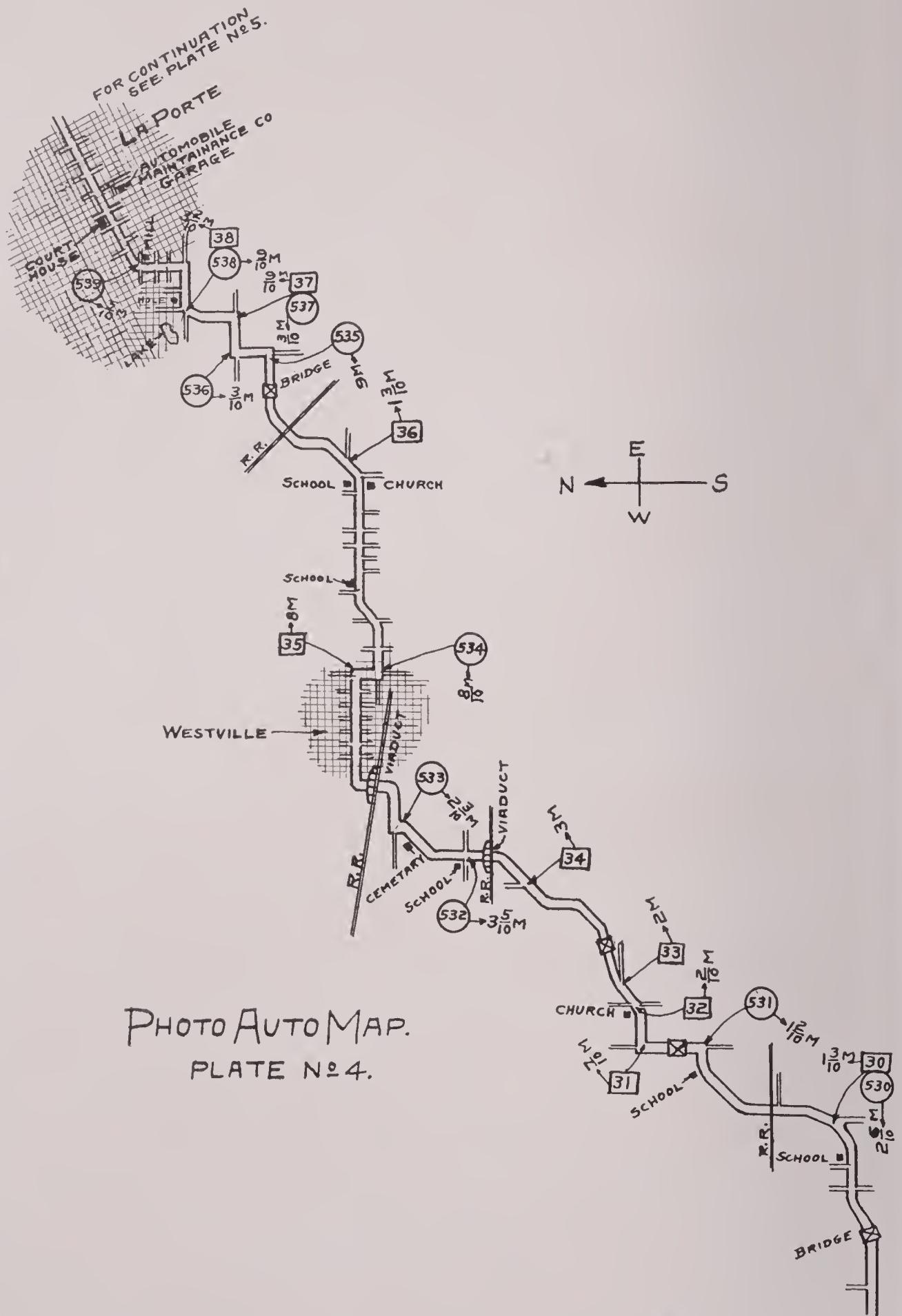


PHOTO AUTO MAP.  
PLATE N° 4.

N S

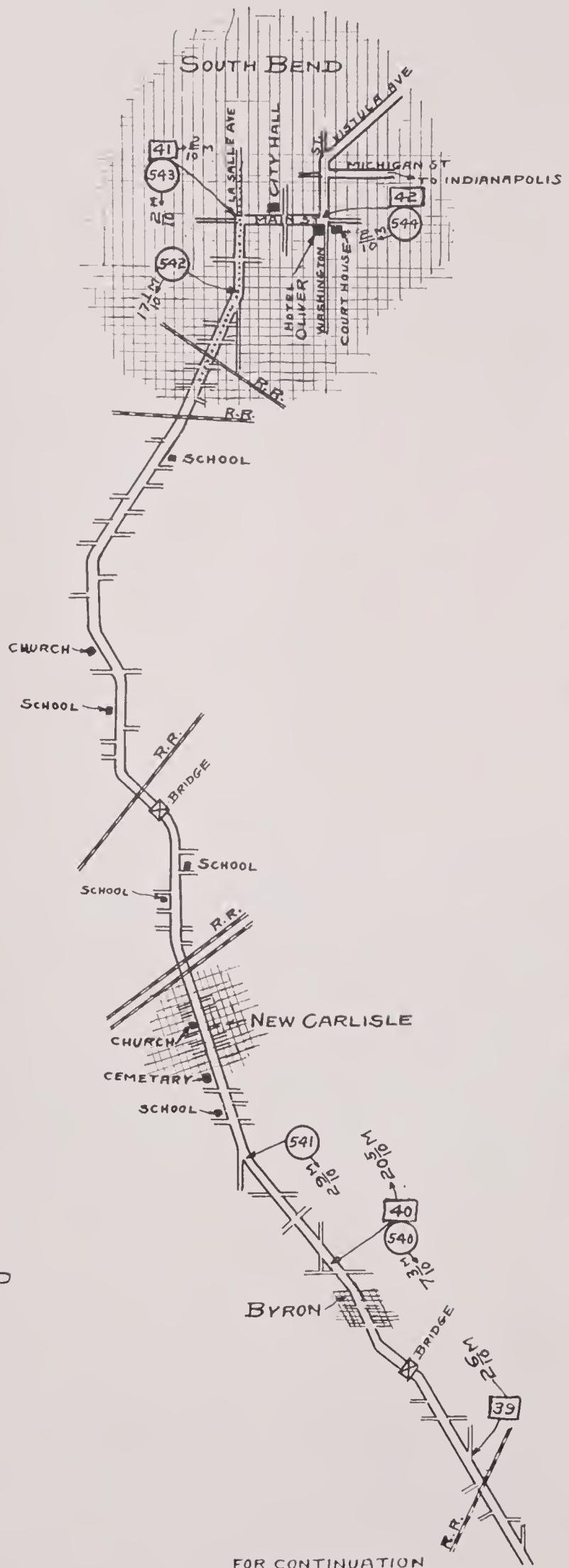
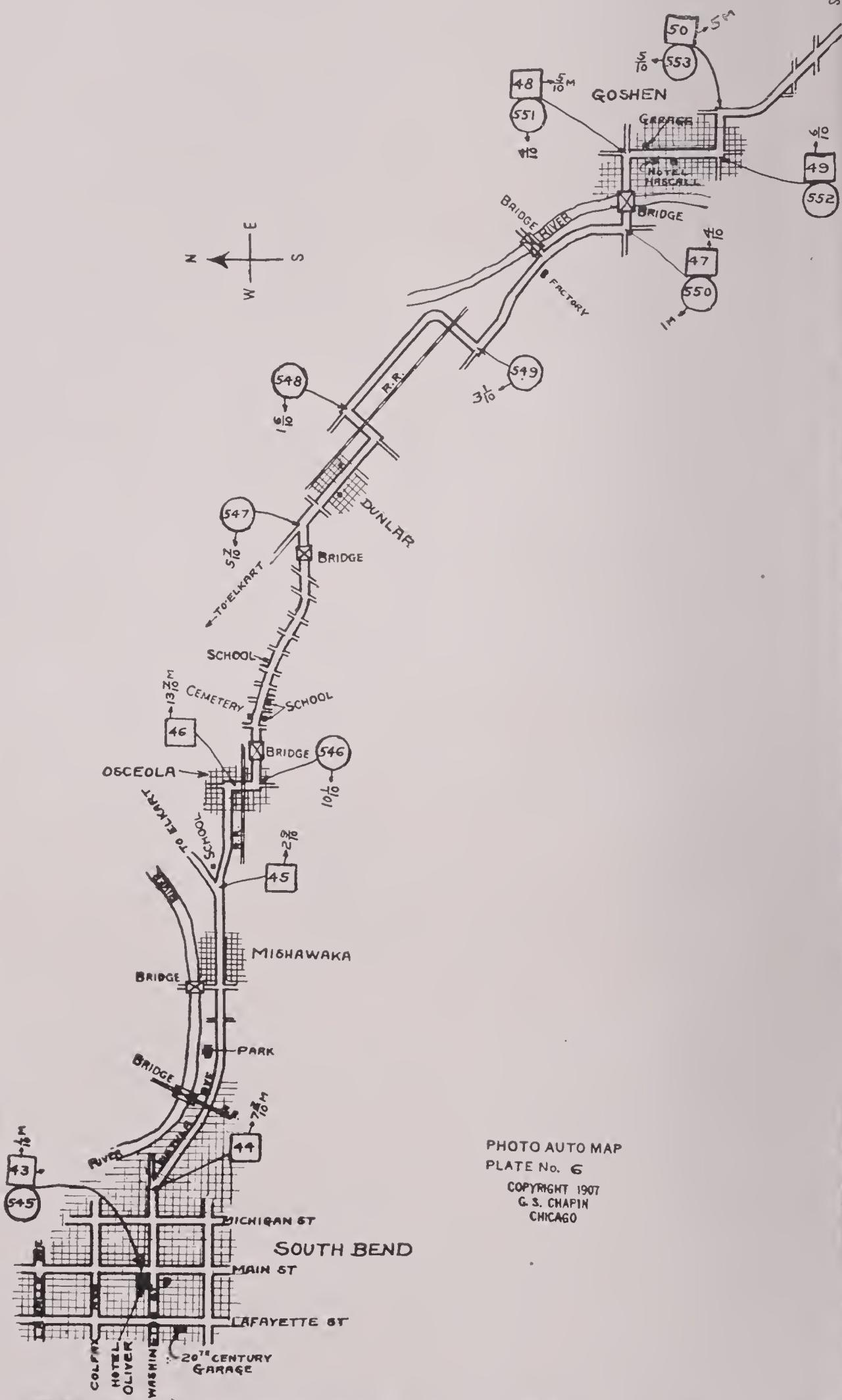


PHOTO AUTO MAP  
PLATE N° 5.



# PHOTO-AUTO MAPS

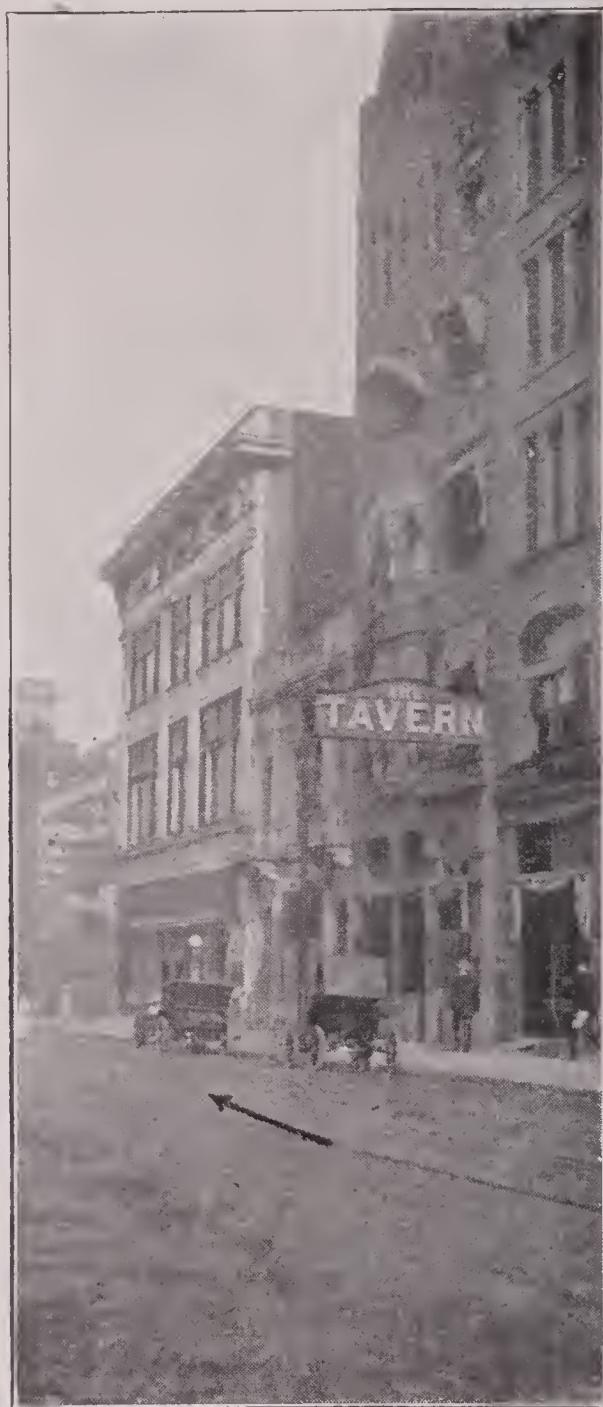
## TOLEDO TO CHICAGO



**ATWOOD GARAGE**  
2815 MONROE ST., TOLEDO, OHIO

This is the best garage in Toledo. Sundries, repairing and charging. Leave the Tavern on the LEFT and go two and one-half blocks to Monroe Street. Turn right into Monroe Street and go straight ahead to the garage. Agents for the Franklin, Elmore and Pope-Hartford.

No. 607



### THE TAVERN, TOLEDO, OHIO

STARTING POINT of run from Toledo to South Bend. The hotel is the best in Toledo for the accommodation of tourist European plan, with fine cafe and grill room in connection. Leave the Tavern on the LEFT and go two and one-half blocks to next photo.

Memo .....

No. 606



Turn RIGHT from St. Clair Street into Monroe Street. Atwood Automobile Co. Garage on left hand side of Monroe St., one and three-quarters miles. This is one of the best Garages in the West. Next photo three and eight-tenths miles.

emo ..

No. 605



Turn LEFT and West. Follow wires. Next photo sixteen and five-tenths miles.

PHOTO-AUTO MAPS—TOLEDO TO SOUTH BEND.

No. 604



Turn LEFT and South. Church on left, cemetery on right after turning. Next photo at end of road, one mile.

Memo \_\_\_\_\_

No. 603



Turn RIGHT and West at end of road. Follow wires. Next photo three-tenths of a mile.

No. 602



urn LEFT and South. Next photo at end of road, two and eight-tenths miles.

memo .....

No. 601



Turn LEFT and East at end of road. Follow wires. Next photo five-tenths of a mile.

No. 600



Turn RIGHT and South. Follow wires. Next photo leaving Swanton, two and nine-tenths miles.

Memo .....

No. 599



SWANTON

Turn RIGHT and West leaving Swanton. Delta six and four-tenths miles. Next photo nine and one-tenth miles.

No. 598



urn LEFT and South. Next photo one mile.

[memo]

No. 597



Turn RIGHT and West. School on right, church on left of turn. Next photo at end of road, one mile.

No. 596



Turn RIGHT at end of road. Cross railroad tracks, then turn left and continue West. Next photo three and one-tenth miles.

Memo .....

No. 595



Turn LEFT and South. Next photo at end of street Wauseon, one mile.

PHOTO-AUTO MAPS--TOLEDO TO SOUTH BEND.

No. 594



WAUSEON

Turn RIGHT and West at end of Main Street. Park on left after turning. Next photo one and two-tenths miles.

memo .....

No. 593



Turn RIGHT and cross tracks, then continue West. Next photo seven and eight-tenths miles.

PHOTO-AUTO MAPS—TOLEDO TO SOUTH BEND.

No. 592



Turn LEFT and South. Red brick school on right. Follow wires. Next photo in Archbold, one and four-tenths miles

Memo \_\_\_\_\_

No. 591



ARCHBOLD

Turn RIGHT and West from Main Street opposite Hotel Verniss. Next photo one mile.

No. 590



urn LEFT and South. Leave wires. Next photo one and five-tenths miles.

[emo .....

No. 589



Turn RIGHT and West. School on left after turning. Next photo at end of road, nine-tenths of a mile.

PHOTO-AUTO MAPS--TOLEDO TO SOUTH BEND.

No. 588



Turn LEFT at end of road and go fifty feet, then turn right and continue West. Stryker three and eight-tenths miles  
Next photo eight and seven-tenths miles.

Memo .....

No. 587



Turn LEFT and South. Next photo two and four-tenths miles.

PHOTO-AUTO MAPS--TOLEDO TO SOUTH BEND.

No. 586



urn RIGHT and West. Next photo in Bryan, eight-tenths  
of a mile.

emo -----

No. 585



BRYAN

urn LEFT and South into Main Street. Hotel Christman,  
the best hotel in Bryan, one block. Next photo three  
blocks.

PHOTO-AUTO MAPS—TOLEDO TO SOUTH BEND.

No. 584



Turn RIGHT and West from Main Street. Court House  
right. Next photo two blocks.

Memo \_\_\_\_\_

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No. 583



Turn LEFT and South. Church on right after turnin  
Next photo three-tenths of a mile.

No. 582



Turn RIGHT and South-West. Mill on left of turn. Next photo three and four-tenths miles.

Iemo

No. 581



Turn RIGHT and West. School on left before turning.  
Next photo three and eight-tenths miles.

PHOTO-AUTO MAPS--TOLEDO TO SOUTH BEND.

No. 580



Keep to RIGHT at fork. Pass school-house on left. Next photo at end of road, one and three-tenths miles.

Memo .....

No. 579



Turn LEFT at end of road. Go one hundred and fifty feet, then turn right and continue West. Next photo at end of road in Edgerton, two and eight-tenths miles.

No. 578



EDGERTON

Turn LEFT at end of road. Go one hundred and fifty feet, then turn right and West. Next photo three-tenths of a mile.

Memo .....

No. 577



Turn RIGHT and cross railroad tracks; then turn left and continue West. Next photo three and six-tenths miles.

PHOTO-AUTO MAPS--TOLEDO TO SOUTH BEND.

No. 576



Turn LEFT and South. Cross railroad tracks. Next photo five-tenths of a mile.

Memo .....

No. 575



Turn RIGHT and West. Follow wires. Butler three and one-tenth miles. Next photo after crossing tracks, six and five-tenths miles.

No. 574



urn RIGHT and West after crossing tracks. Next photo at end of road, one and seven-tenths miles.

emo

No. 573



Turn LEFT at end of road. Go fifty feet, then turn right and continue West. Follow wires. Next photo, Waterloo, three and one-tenth miles.

No. 572



WATERLOO

Turn RIGHT and South entering Waterloo. Next photo one mile.

Memo \_\_\_\_\_

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No. 571



Turn LEFT on first road after crossing bridge. Next photo ten and six-tenths miles.

No. 570



urn LEFT and West. Follow wires. Next photo in Kendallville, three and three-tenths miles.

emo

No. 569



### KENDALLVILLE

Turn LEFT and South into East Street. Next photo two-tenths of a mile.

No. 568



Turn RIGHT from East Street into Mitchell Street. Follow wires. Next photo six-tenths of a mile.

Memo \_\_\_\_\_

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No. 567



Turn RIGHT and North from Mitchell Street into Ma Street. Next photo at end of road six-tenths of a mile.

PHOTO-AUTO MAPS—TOLEDO TO SOUTH BEND.

No. 566



urn LEFT at end of road. Next photo one-tenth of a mile.

emo

No. 565



o STRAIGHT AHEAD and cross railroad tracks. Brimfield  
five and six-tenths miles. Next photo after crossing  
viaduct, five and nine-tenths miles.

PHOTO-AUTO MAPS—TOLEDO TO SOUTH BEND.

No. 564



Turn LEFT and cross bridge; then turn right and continue West. Next photo at end of road, four and one-tenth mile

Memo \_\_\_\_\_

No. 563



Turn RIGHT and North at end of road. Follow most wires  
Next photo in Wawaka, seven-tenths of a mile.

No. 562



WAWAKA

urn LEFT and West. Red brick church on right. Follow wires. Next photo one and three-tenths miles.

emo

No. 561



urn LEFT and West. Follow wires. Next photo eight-tenths of a mile.

PHOTO-AUTO MAPS--TOLEDO TO SOUTH BEND.

No. 560



Turn RIGHT and West. School on left. Follow wire  
Next photo at end of road, two and four-tenths miles.

Memo \_\_\_\_\_

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No. 559



Turn RIGHT and North at end of road. Follow wire  
Next photo two-tenths of a mile.

No. 558



Turn LEFT and West. Follow wires. Next photo Ligonier,  
one and two-tenths miles.

Memo

No. 557

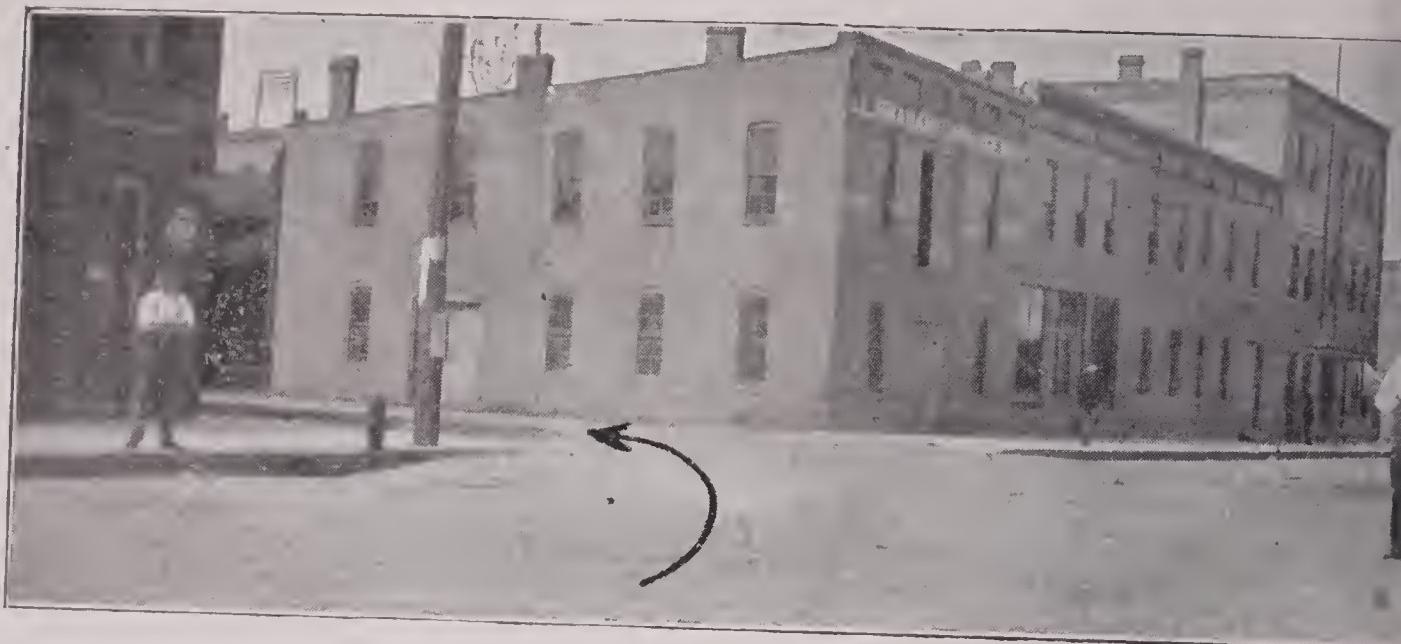


LIGONIER

Turn RIGHT and North. Next photo four-tenths of a mile.

PHOTO-AUTO MAPS—TOLEDO TO SOUTH BEND.

No. 556



Turn LEFT and West from Main Street. Next photo five  
and nine-tenths miles.

Memo .....

No. 555



Turn RIGHT and North. School house on right. Follow  
most wires. Next photo at end of road, six-tenths of a mile.

No. 554



urn LEFT and West at end of road. Follow wires. Benton  
four and two-tenths miles. Next photo entering Goshen,  
ten and eight-tenths miles.

emo -----  
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No. 553



Turn LEFT and West. Next photo in Goshen, six-tenths  
of a mile.

PHOTO-AUTO MAPS--TOLEDO TO SOUTH BEND.

No. 552



GOSHEN

Turn RIGHT and North into Main Street. Next photo five-tenths of a mile. Hotel Hascal, the best in Goshen, opposite square on left side of Main Street. Goshen Automobile Co. opposite Hotel Hascal.

Memo .....

No. 551



Turn LEFT from Main Street. Follow car tracks. Next photo after crossing bridge, four-tenths of a mile.

No. 550



Turn RIGHT into first street after crossing bridge. Next photo one mile.

Memo .....

No. 549



Turn RIGHT and North. Next photo three and one-tenth miles.

PHOTO-AUTO MAPS—TOLEDO TO SOUTH BEND.

No. 548



Turn LEFT and cross railroad tracks; then turn right and continue along tracks. Dunlap one mile. Next photo one and six-tenths miles.

Memo .....

No. 547



Turn LEFT and West. Next photo Osceola, five and seven-tenths miles.

No. 546



OSCEOLA

urn RIGHT; cross railroad tracks, then turn left and con-  
tinue West. Mishawaka five and eight-tenths miles. Next  
photo South Bend, ten and one-tenth miles.

emo .....

No. 545



Turn RIGHT from Washington Street into Main Street. Hotel  
Oliver (photo No. 544) at this corner.

No. 544



## HOTEL OLIVER, SOUTH BEND, IND.

This hotel is one of the best encountered between Chicago and New York. Every facility possible is provided for the comfort of its guests. Auto parties given special attention. Next photo (No. 543) two blocks.

Memo

PHOTO-AUTO MAPS—SOUTHERN BEND TO CHICAGO, ILL.



# TWENTIETH CENTURY GARAGE

## SOUTH BEND, IND.

located one block WEST of Hotel Oliver and half a block South on Lafayette Street. This garage is equipped with a first-class machine shop, and special attention is given to tourists.

memo

PHOTO-AUTO MAPS—SOUTH BEND TO CHICAGO, ILL.

No. 543



Turn LEFT, West. Turn from Main Street into La Salle Street, two blocks from the Hotel Oliver. Next turn two tenths of a mile.

Memo .....

No. 542



Turn RIGHT, West. Follow street car tracks to end of brick pavement. Next photo seventeen and one-tenth miles, after passing through New Carlisle, fourteen miles. Follow the wires.

No. 541



urn LEFT, South-West. Cottage ahead on right at turn.  
Next turn two and nine-tenths miles. Road on right leads  
to Rolling Prairie.

Memo .....

No. 540



Straight AHEAD, South-West. White frame dwelling  
on left. Next photo seven and three-tenths miles.

No. 539



Turn LEFT. Mill on left, go to end of street and turn right, go two blocks. Next photo five-tenths of a mile.

Memo .....

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No. 538

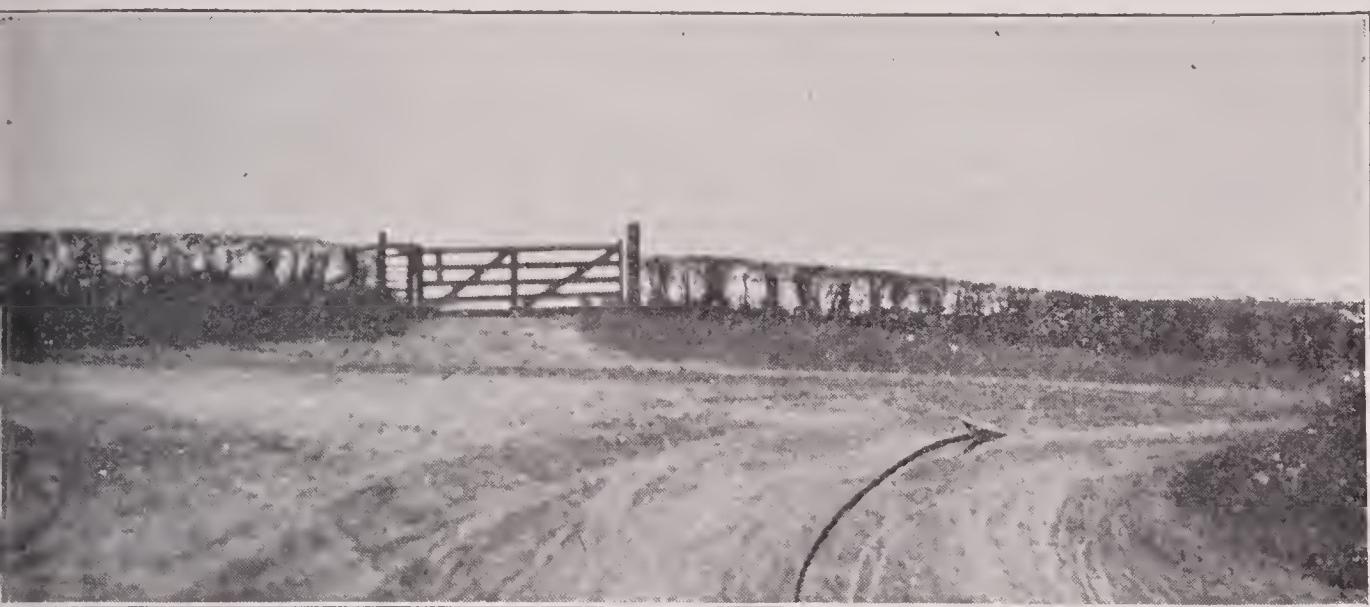


Turn LEFT, South. Large hole on right, small lake one block ahead on right. Next photo nine-tenths of a mile.

PHOTO-AUTO MAPS—SOUTH BEND TO CHICAGO, ILL.

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No. 537



urn RIGHT, West. Next photo three-tenths of a mile.

emo

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No. 536



urn LEFT. Next photo three-tenths of a mile.

PHOTO-AUTO MAPS—SOUTII BEND TO CHICAGO, ILL.

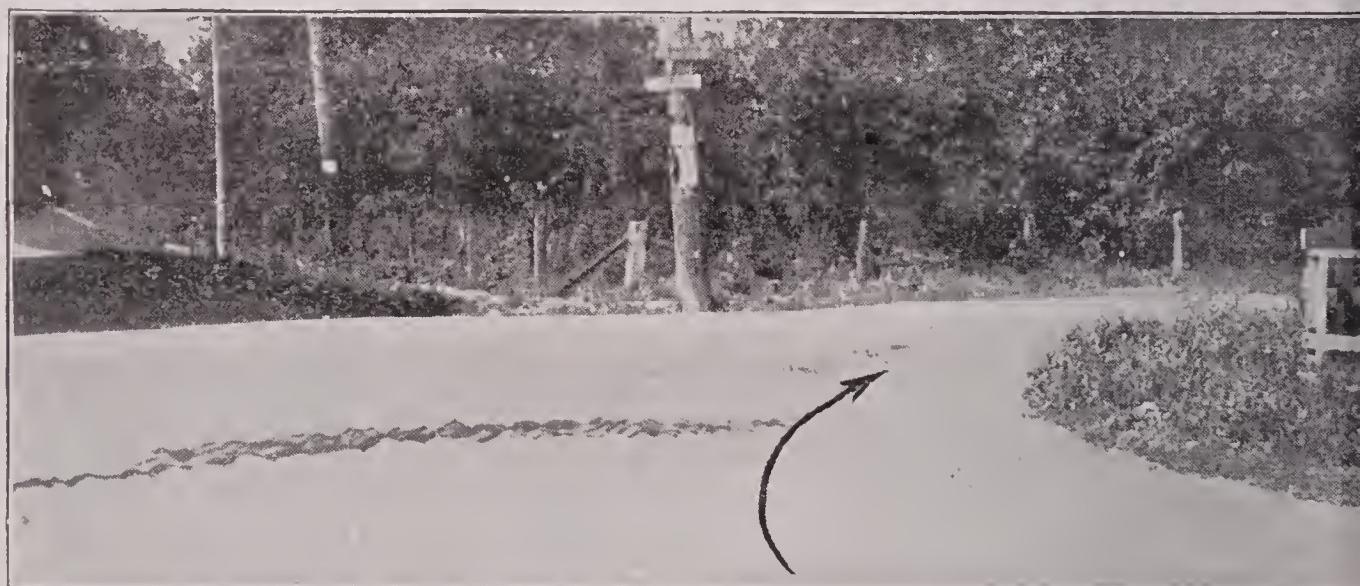
No. 535



Turn RIGHT, West. Follow the wires. Next photo We  
ville, nine miles.

Memo .....

No. 534

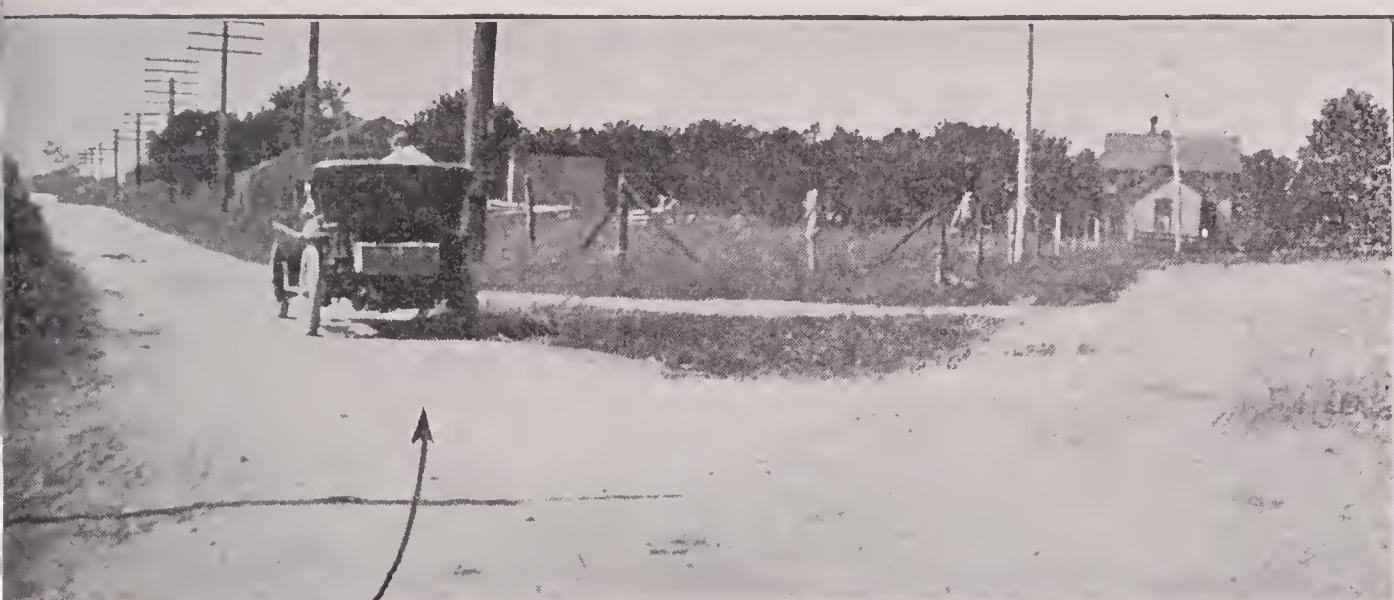


WESTVILLE

Turn RIGHT, North. After going one hundred and fif  
feet turn left on Main Street in Westville, keep straig  
ahead through town, passing under R. R. embankmen  
Next photo eight-tenths of a mile.

PHOTO-AUTO MAPS—SOUTH BEND TO CHICAGO, ILL.

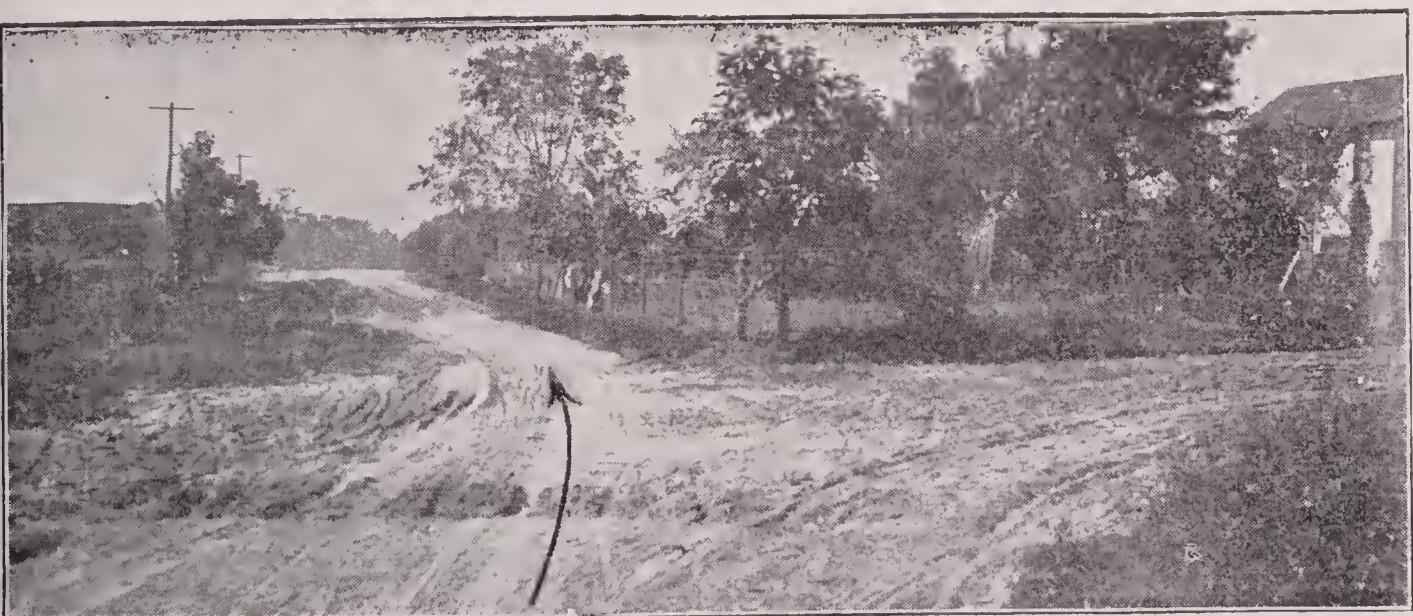
No. 533



urn LEFT, West, after passing under R. R. embankment.  
Next photo two and three-tenths miles.

Memo .....

No. 532



Straight ahead. Next photo after arriving at end of  
road, turning to left and crossing small bridge, three and  
five-tenths miles.

No. 531



Turn RIGHT, South-West. After crossing small bridge re-  
main on main road. Next turn at cross roads, one and  
three-tenths miles.

Memo .....

No. 530



Turn RIGHT, West. Cross roads. Next turn Valparaiso  
two and six-tenths miles.

No. 529



### VALPARAISO

Turn RIGHT, North. Go one hundred and fifty feet, then left on Main Street to end of town, passing railroad depot and viaduct. Next turn one and three-tenths miles. One block past Court House on same side of street is Hotel Lafayette. This hotel is the best between South Bend and Chicago. Special meal arrangements can be made by long distance telephone 991. One block beyond hotel is Zimmerman's garage—expert machinists always in waiting. After hours ring electric bell on side office door.

Memo .....

No. 528



Turn RIGHT, North. Next photo at group of barns and wind mill, two miles.

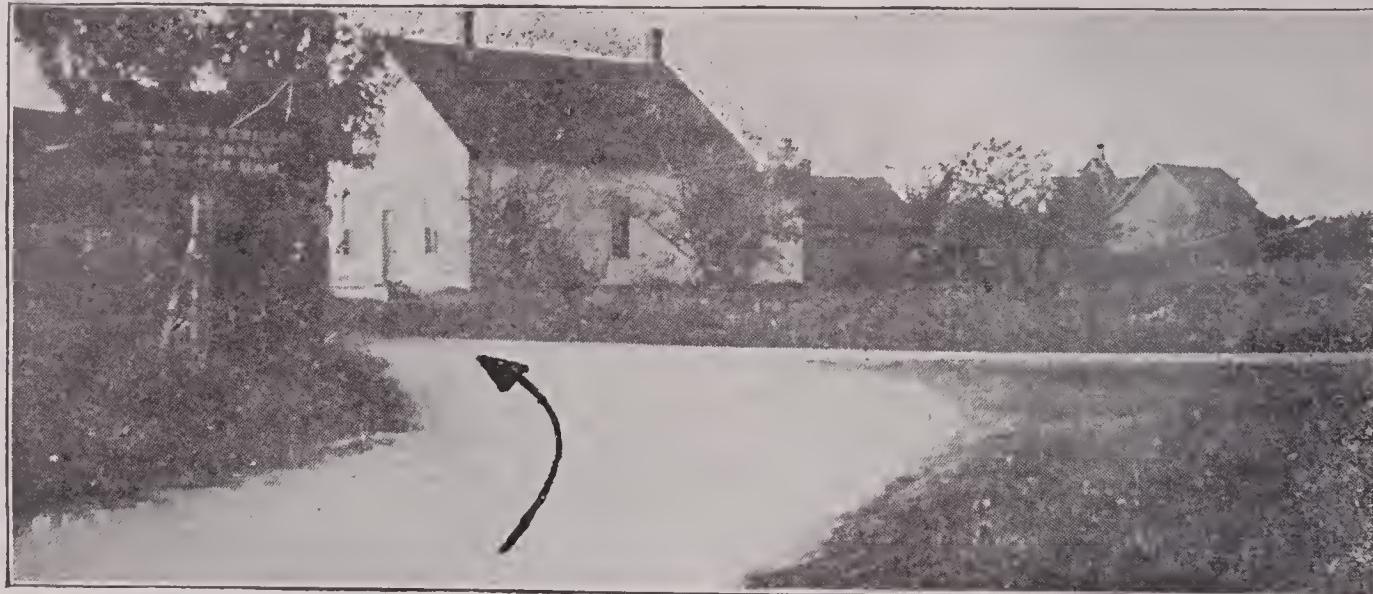
No. 527



Turn LEFT, West. Wind mills and group of barns on left  
Next photo Wheeler, four and seven-tenths miles.

Memo .....

No. 526



### WHEELER

Turn LEFT entering Wheeler. Look out for disguised bumps  
just beyond turn. Next turn at street's end, five-tenths of  
a mile. Reduce speed in village.

PHOTO-AUTO MAPS—SOUTH BEND TO CHICAGO, ILL.

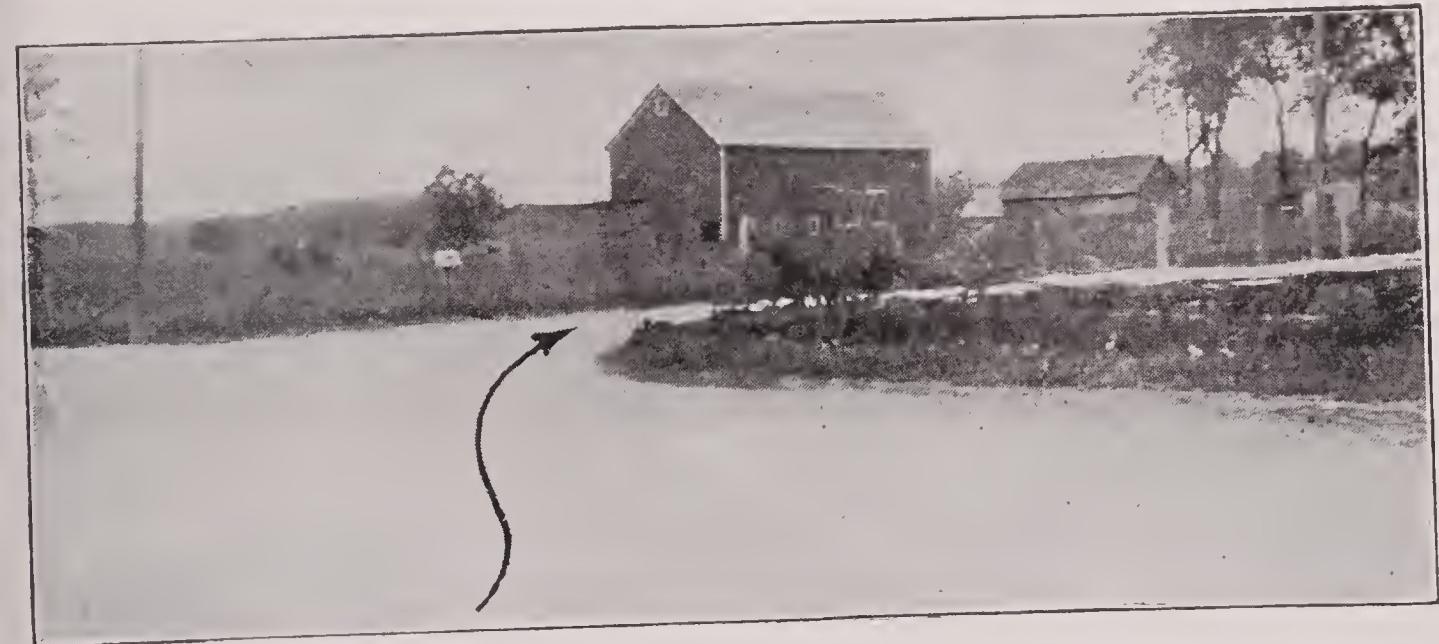
No. 525



urn RIGHT, North-West. Next photo at "S" turn, six-tenths of a mile.

Iemo

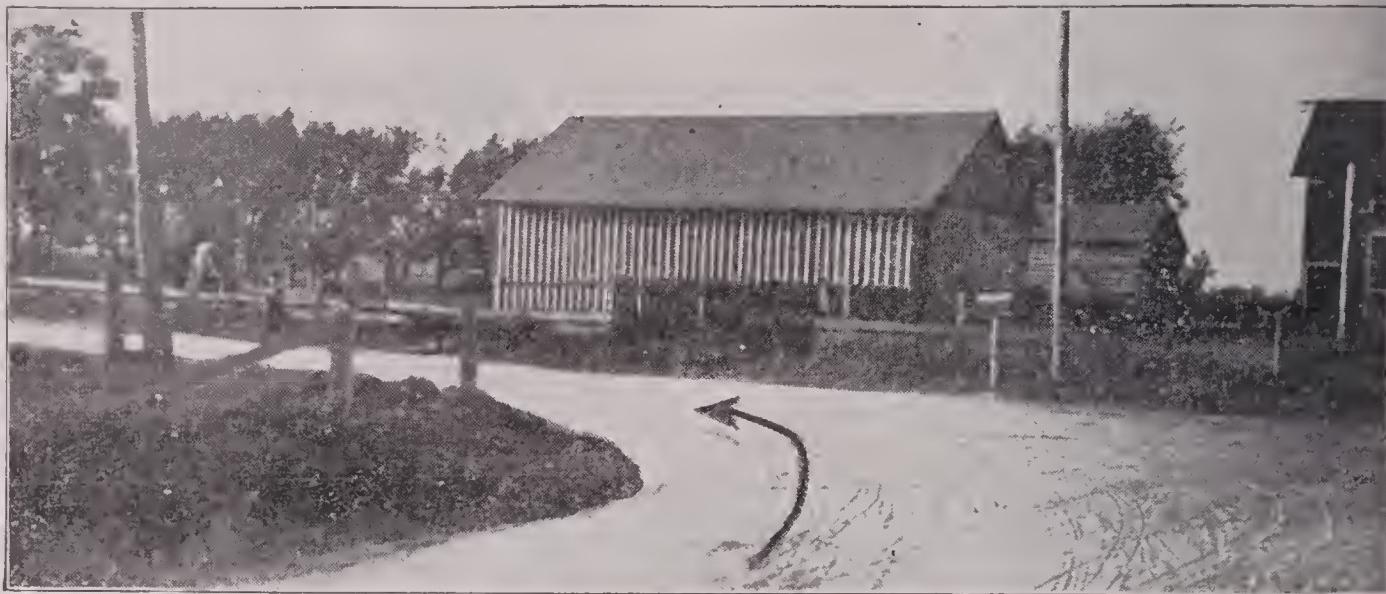
No. 524



Continue going North after making "S" turn. Follow wires.  
Next turn at road's end, one mile.

PHOTO-AUTO MAPS—SOUTH BEND TO CHICAGO, ILL.

No. 523



Turn LEFT, West. Follow wires. Next turn Hobart, three  
and one-tenth miles.

Memo .....

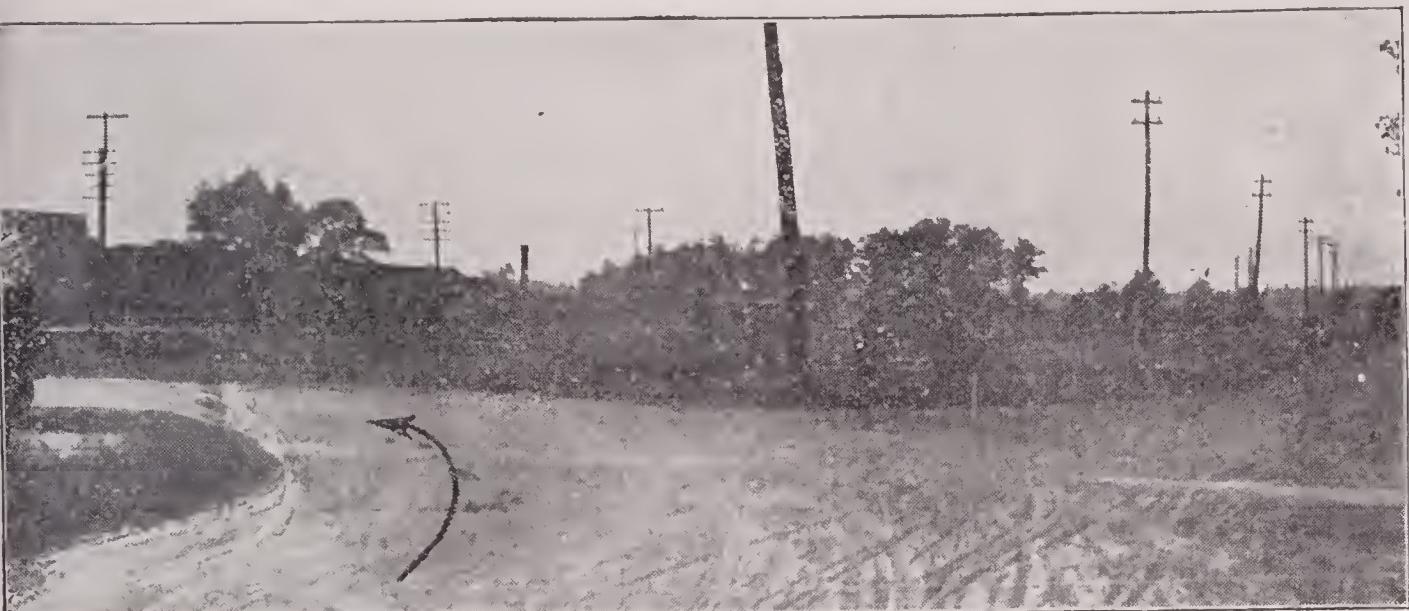
No. 522



Turn LEFT and go South to street's end, then right. Next  
photo two-tenths of a mile.

PHOTO-AUTO MAPS—SOUTH BEND TO CHICAGO, ILL.

No. 521



Turn LEFT, South. Hobart depot on left, turn right after passing depot. Next turn in Hobart, three-tenths of a mile.

Memo .....

No. 520

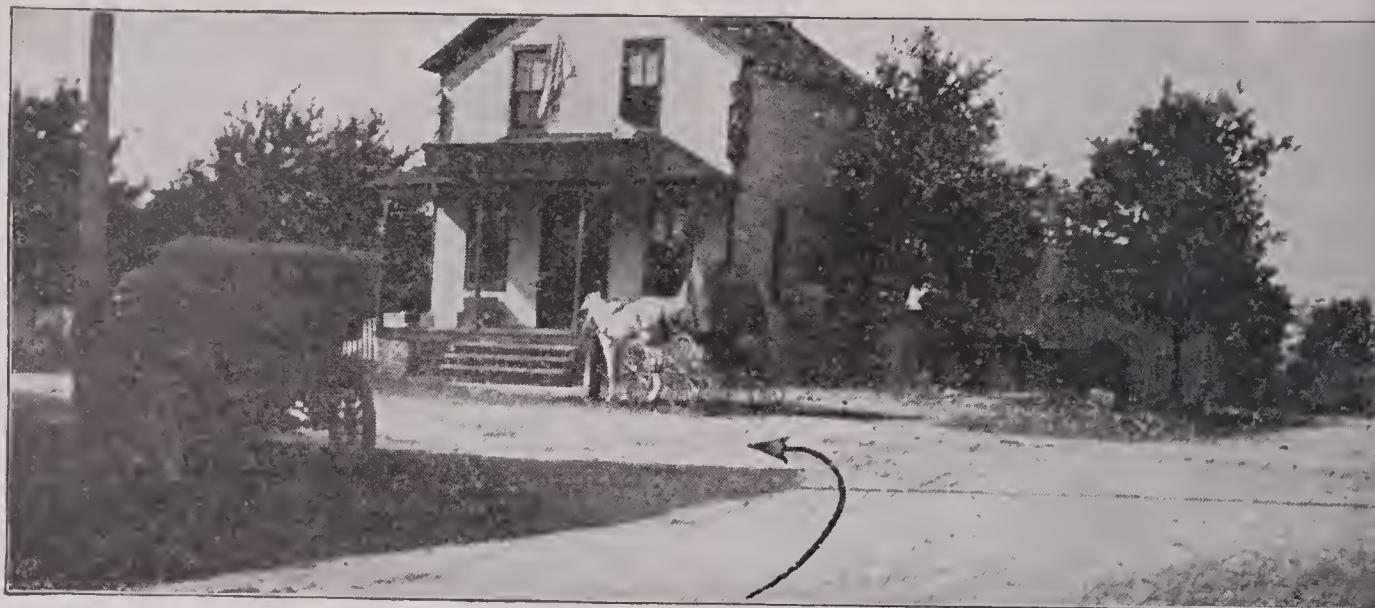


HOBART

Turn RIGHT, North-West. Follow the wires. Next photo Highlands, eleven and three-tenths miles.

PHOTO-AUTO MAPS—SOUTH BEND TO CHICAGO, ILL.

No. 519



HIGHLANDS

Turn LEFT, West. Next turn two and three-tenths miles.

Memo .....

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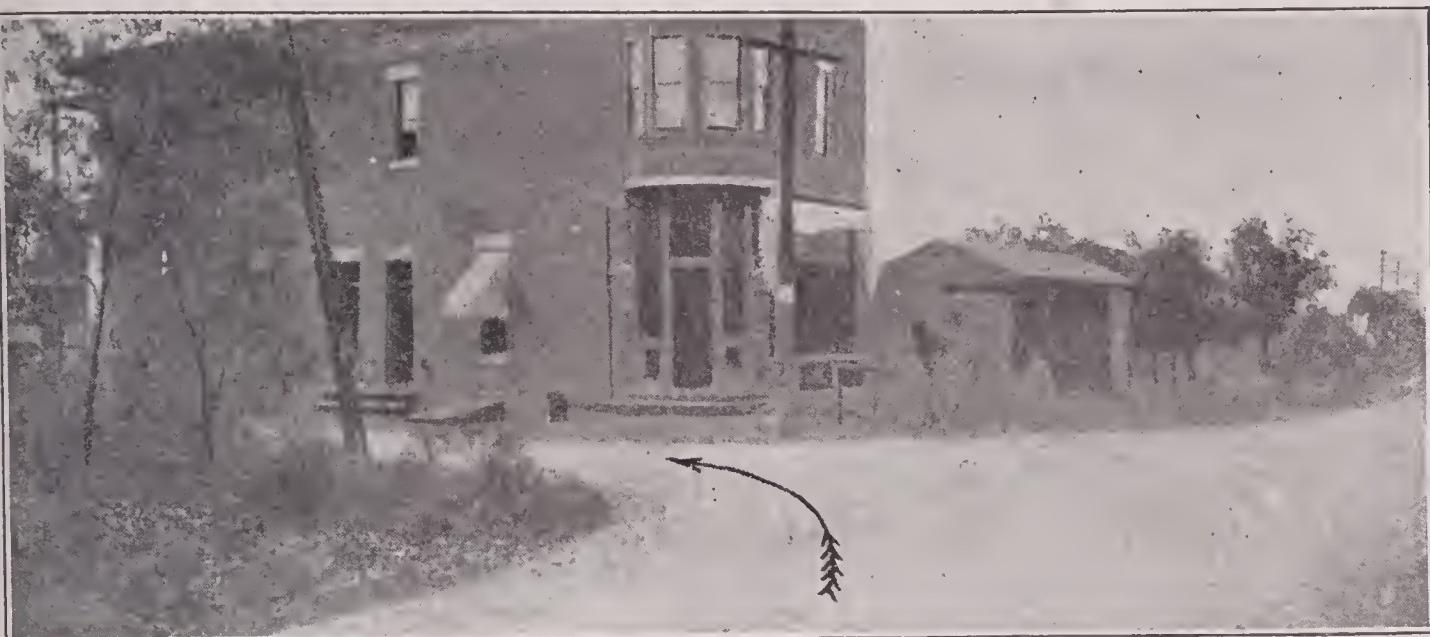
No. 518



Turn RIGHT, North. Road-house on left. Next turn two and three-tenths miles.

PHOTO-AUTO MAPS—SOUTH BEND TO CHICAGO, ILL.

No. 517



Turn LEFT, West. Saloon on right at turn. Next turn five-tenths of a mile.

Memo .....

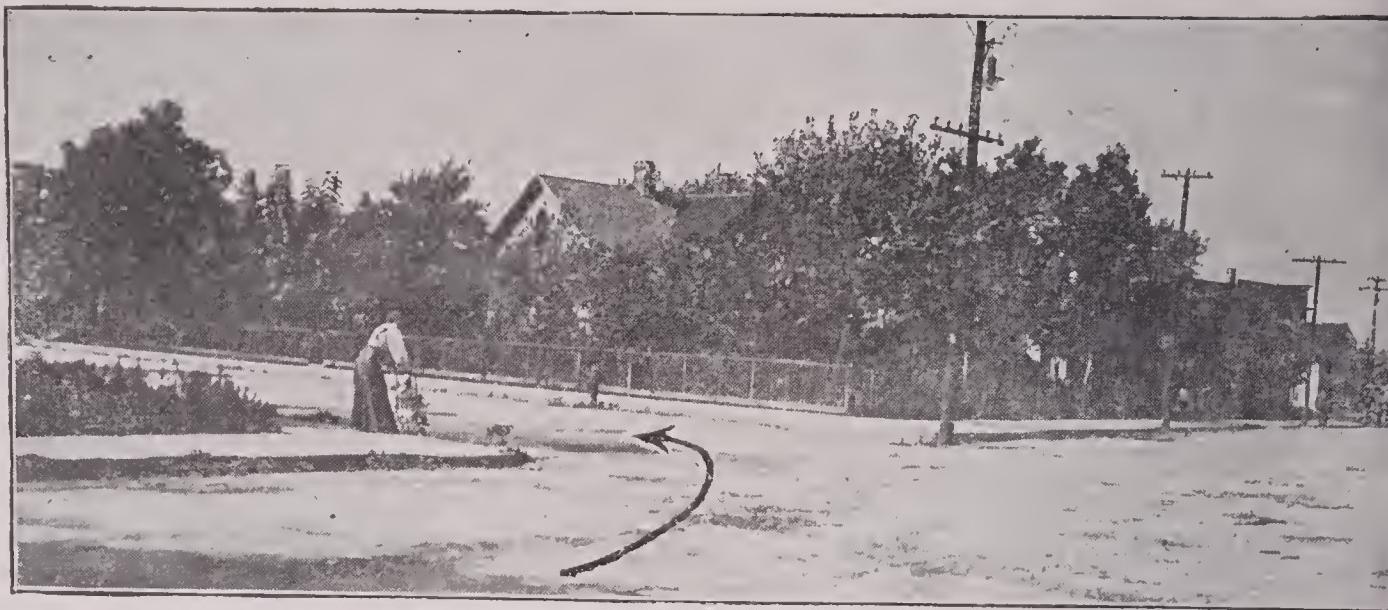
No. 516



Turn RIGHT, North. Next turn at Lafayette School, one and three-tenths miles.

PHOTO-AUTO MAPS—SOUTH BEND TO CHICAGO, ILL.

No. 515



Turn LEFT, West. Lafayette School on right. Next turn one mile.

Memo .....

No. 514

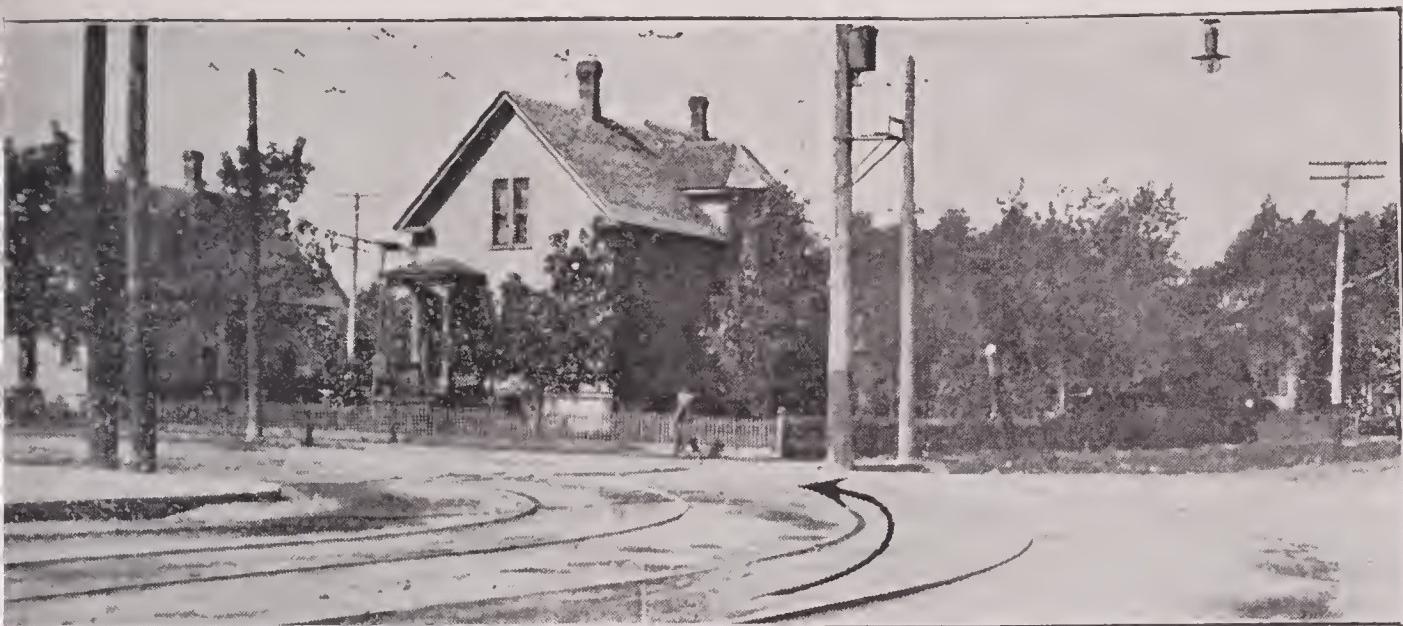


HAMMOND

Turn RIGHT, North. Turn right from Sibley Street to Homman Avenue. Half a block beyond turn is the Majestic Hotel and Cafe. The management extends first class hotel facilities to automobile parties. Next turn one mile.

PHOTO-AUTO MAPS—SOUTH BEND TO CHICAGO, ILL.

No. 513



Turn LEFT and go West. Go one block west and turn with car tracks. Next turn four miles.

Iemo

No. 512



Turn LEFT, North-West. Follow car tracks to Ewing Avenue, two and one-tenth miles.

No. 511



Turn RIGHT and go North, Ewing and Indianapolis Avenues. Follow car tracks across bridge to 92nd Street and Buffalo Avenue, one and eight-tenths miles.

Memo .....

No. 510



Turn LEFT, 92d Street, South Chicago. Continue to Exchange Avenue. Next photo six-tenths of a mile.

No. 509



Turn RIGHT, Exchange Avenue, statue of Columbus on left. Next photo 83d Street, one mile.

Memo.....

No. 508



Turn LEFT. Follow macadam to Jeffrey Avenue, one mile.

PHOTO-AUTO MAPS—SOUTH BEND TO CHICAGO, ILL.

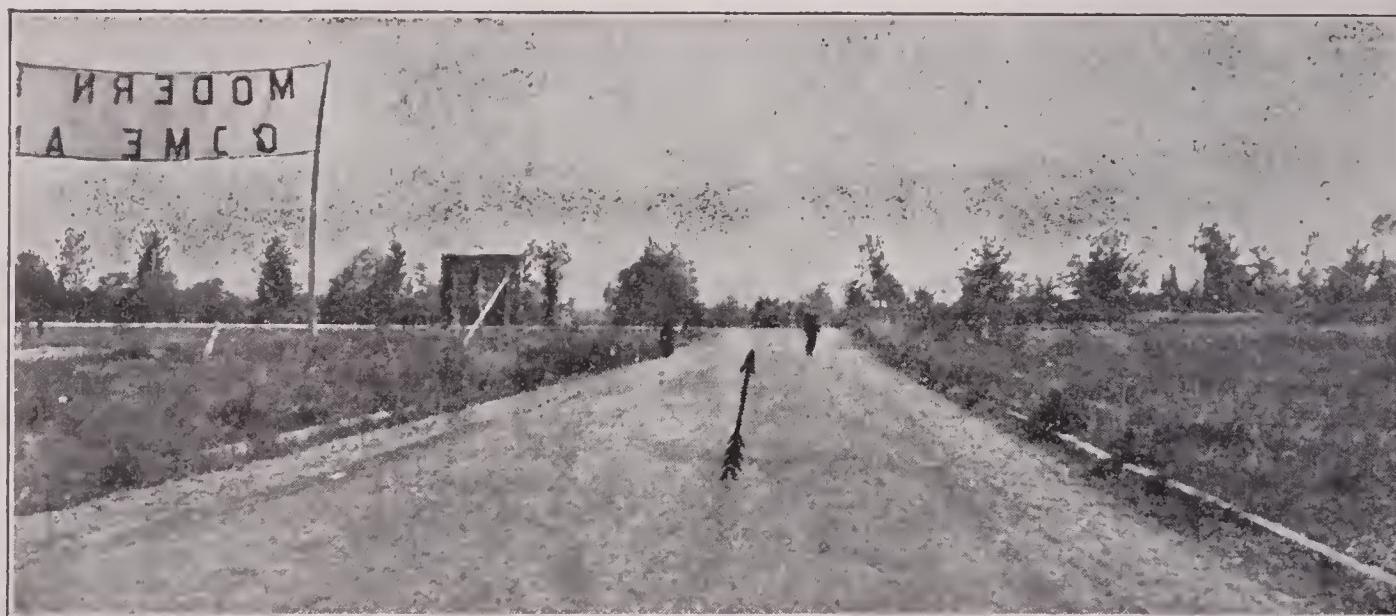
No. 507



Turn RIGHT, Jeffrey Avenue, follow macadam North.  
Next photo two miles.

Memo.....

No. 506



JACKSON PARK.

Enter park, turning LEFT upon first drive.

PHOTO-AUTO MAPS—SOUTH BEND TO CHICAGO, ILL.

No. 505



Turn LEFT. Lagoon and stone bridge on right.

Memo.....

No. 504



Turn RIGHT. Lagoon on right.

PHOTO-AUTO MAPS—SOUTH BEND TO CHICAGO, ILL.

No. 503



Turn LEFT, red-tiled rest building on left. Tennis court  
and Golf links on left.

Memo .....

No. 502



Turn RIGHT, small police box on left.

No. 501



Turn LEFT, red-tiled boat building on right. Leave park.  
Continue straight West upon Midway Drive, passing  
under Illinois Central Railroad viaduct.

Memo.....

No. 500



### MIDWAY DRIVE.

Keep STRAIGHT AHEAD, crossing Cottage Grove Avenue trolley, and enter Washington Park, turning right, passing administration buildings of parks on right, follow drive left to long, low building on left. (Refectory.)

PHOTO-AUTO MAPS—SOUTH BEND TO CHICAGO, ILL.

No. 499



Keep to RIGHT and North. Refectory on left. Leave park at 51st Street. Grand Boulevard five-tenths of a mile.

Memo .....

No. 498



STRAIGHT AHEAD. Leave park at Grand Boulevard and 51st Street, passing statue of Washington. Next turn two miles, South Park Boulevard and 33rd Street.

PHOTO-AUTO MAPS—SOUTH BEND TO CHICAGO, ILL.

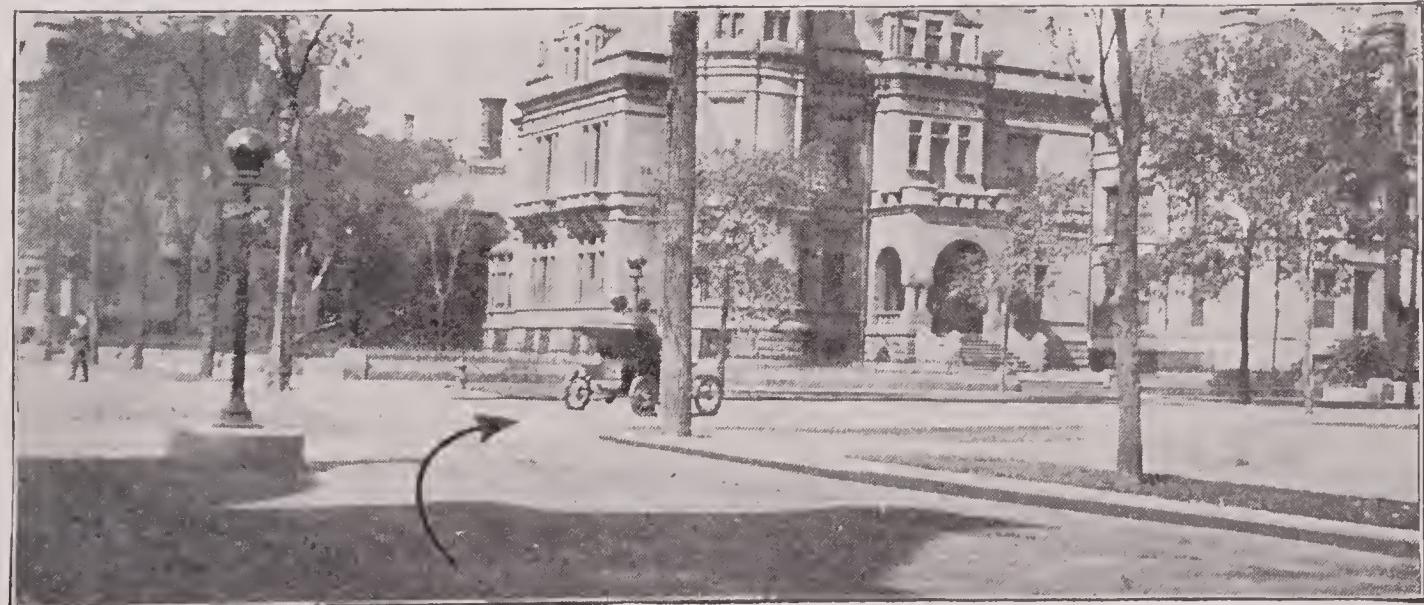
No. 497



Turn LEFT and go West, South Park Boulevard and 33rd Street. Next turn Michigan Avenue and 33rd Street, four-tenths of a mile.

Memo

No. 496



Turn RIGHT and go North. Michigan Avenue and 33rd Street last turn.

No. 495



# NEW SOUTHERN HOTEL

MICHIGAN AVENUE AND 13th STREET, CHICAGO, ILL.

FINISHING POINT of Photo-Auto Maps in Chicago, Ill., is The New Southern Hotel, situated so convenient to "Automobile Row," it is really considered the very best Hotel in Chicago for automobile tourists. A more delightful place for visitors in Chicago could not be conceived. Their every convenience and comfort is studiously provided for. Splendid Cafe, Restaurant and Grill Rooms in connection. Good garage accommodations may be had one block south of Hotel.

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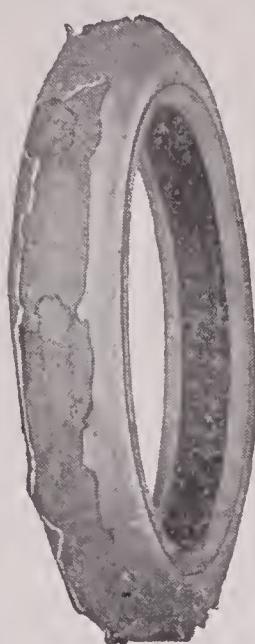
206 High Street

Newark, New Jersey

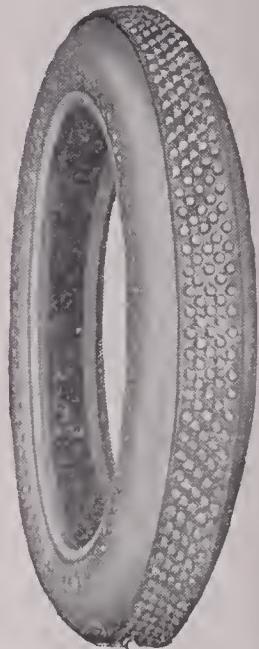
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Or With Cash Order



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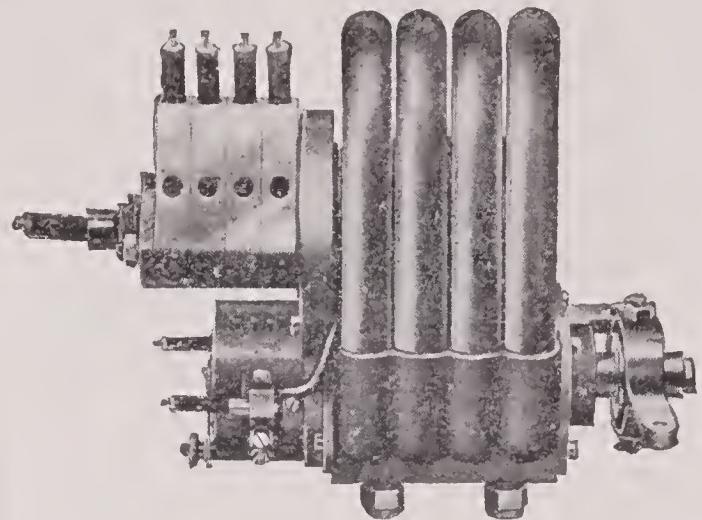
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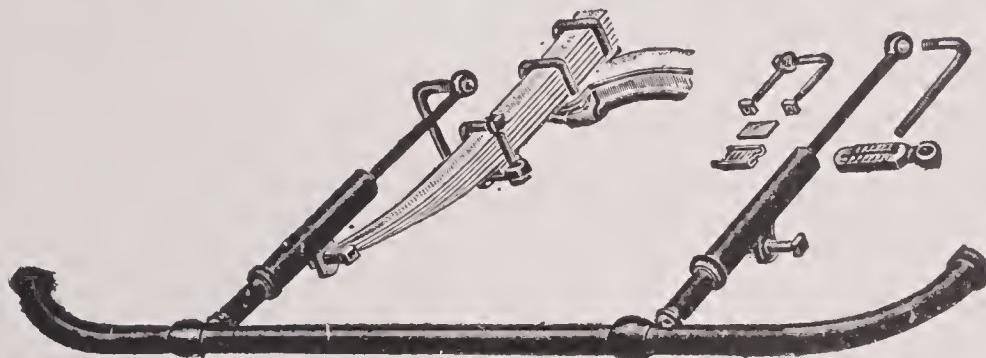
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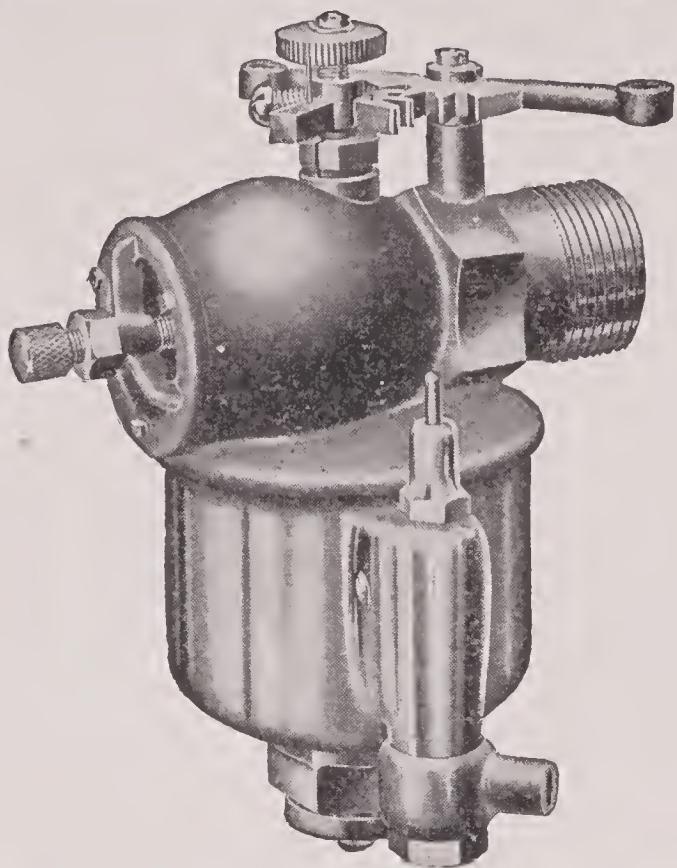
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a PERFECT CIRCULATION of the WATER  
and a COOL RUNNING ENGINE.

Sold by all Auto Supply Stores and  
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**The Nonkoroda Co.,**  
25 and 27 New Chambers St., New York

**MODEL "C"**  
**HEITGER CARBURETER**



Made in all regular sizes. Special types for Ford and Buick runabouts. All guaranteed to give satisfaction or money back.

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225 W. South Street, INDIANAPOLIS, IND.



**Handel Speed Indicator**

- It is absolutely accurate
- It is simply and compactly made
- It does not get out of order
- It stands the hardest usage
- It is neat in appearance.
- It is easily attached
- It is guaranteed for five years
- The hands do not waive and wobble.

**LOUIS HANDEL**  
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176-180 GRAND STREET

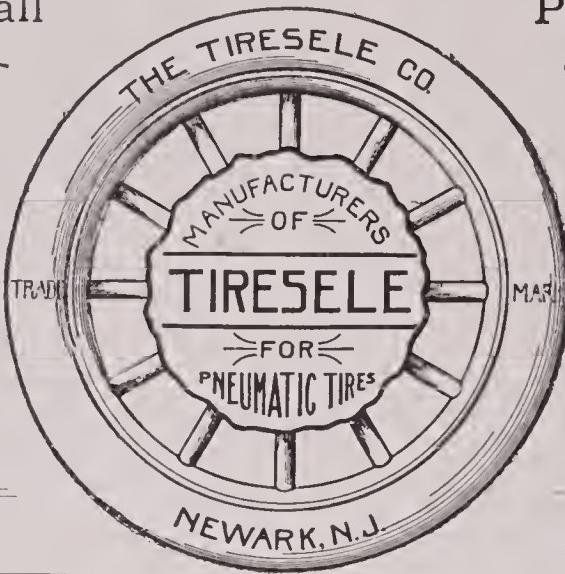
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NEW YORK CITY

# TIRESELE

PREVENTS DELAY—LINGER AND WAIT—  
takes care of all  
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Shoe. Also Motor  
and all Pneu-  
last as long as  
gum up or get  
in any way  
canizing. Only  
wheel. Price,

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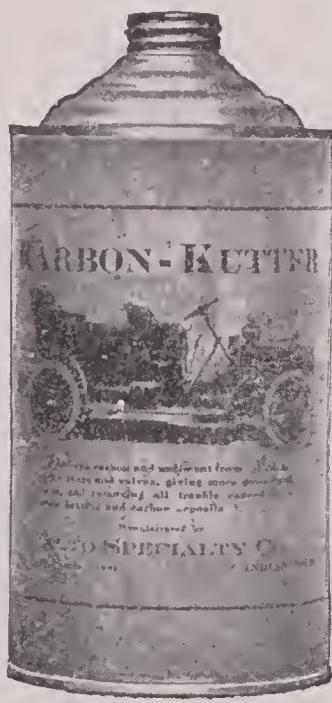


Porous or Punc-  
out removing the  
Cycles, Bicycles  
matic tires —  
tube — will not  
hard. Does not  
prevent vul-  
two oz. to auto  
\$2.50 per wheel.

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**THE TIRESELE CO., Manufacturers**  
**53-55 Bank Street, NEWARK, N. J.**

Sold by MOTOR CAR SUPPLY COMPANY, CHICAGO, ILLINOIS



## KARBON CUTTER

**WILL SAVE YOU MONEY**

Cleans thoroughly all carbon and sediment from motor  
without injury to any parts.

GARAGE MAN'S CHARGE for tearing down motor and scraping carbon, ten hours	\$6.50
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OUR CHARGE—1 qt. KARBON CUTTER	1.00
Saved	\$5.50

A set of Scrapers free with each order for one dozen quarts.

**AUTO SPECIALTY CO.**

330 NORTH ILLINOIS ST.

INDIANAPOLIS



## AUTOMOBILE BRAKE BAND LINING

HAS A REINFORCED CUSHION SURFACE THAT TAKES UP ALL SUDDEN JARS AND PERMITS THE RIVETS TO BE COUNTERSUNK, THUS BRINGING THE WEAR ON THE LINING AND NOT ON THE RIVET HEAD

**GRIP-ON**  
*Spells Economy*

For further particulars write

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THE NEW YORK LEATHER BELTING COMPANY  
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When passing  
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Evansville

drop in and let  
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The finest Garage  
in southern Indiana.  
Our terms are right,  
and we don't care  
who knows it.

**THE FELLWOCK  
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No. 3 Upper Fourth Street  
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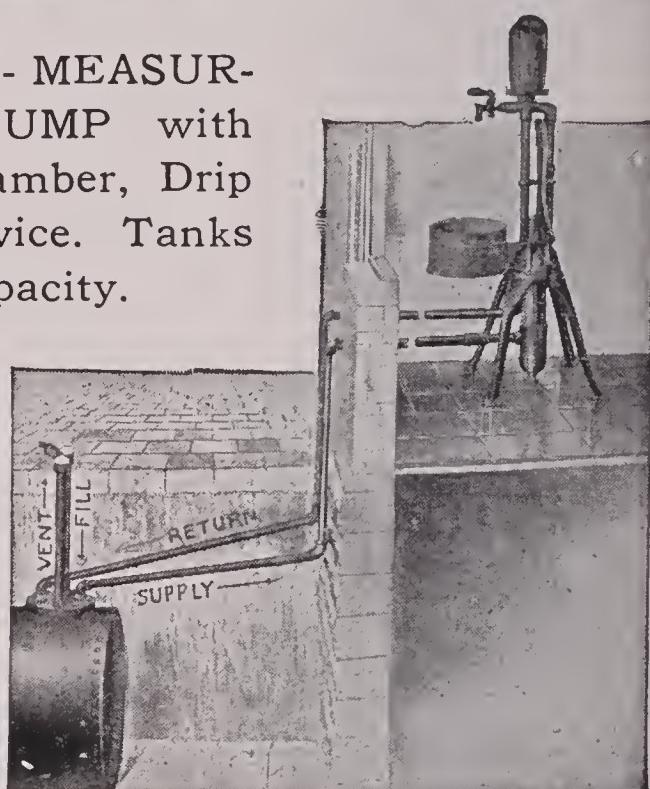
# The Tokheim Gasoline Outfit

Outfit consists of DOME SELF - MEASURING, PRICE COMPUTING PUMP with Tokheim Patent Priming Chamber, Drip Pan, Gauge Rod and Locking Device. Tanks furnished in any desired capacity.

Pump can be furnished with Special Three-Way Discharge Valve and with Counter which registers the amount discharged up to 9999 gallons and repeats.

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We manufacture twenty-five styles of SELF-MEASURING OIL OUTFITS.



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We make Wrenches all sizes from 5-16 to 5 in. sq., 5-8 to 5 in. hex.

This half-tone is from a photograph, showing our "Multo" Socket Wrench. Each Wrench with its fourteen sockets is packed in a substantial cased box.

All our Ratchet Wrenches are reversible and work right or left handed at pleasure without removing the Wrench.

All kinds and sizes.  
Send for catalogue.

LOWELL WRENCH CO., WORCHESTER,  
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The use of "DUFFY'S" proves our claim  
"ONCE A GREASE,  
ALWAYS A GREASE"

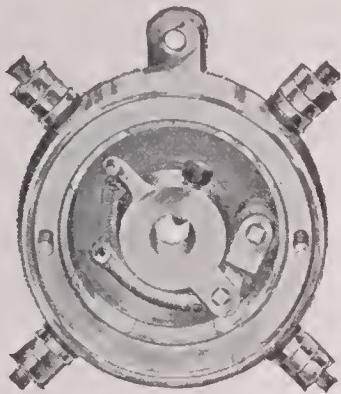
No waste or flushing on the brakes.  
Not affected by weather conditions.  
Used wherever a grease is used.

Try it

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# Timers and Distributors

OF EVERY KNOWN TYPE  
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We are specialists in this line and our experience and manufacturing facilities enable us to turn out large quantities for engine builders and dealers at very attractive prices. Jobbers and dealers write us for prices. Agents wanted in the West and on the Coast.

The Altemus Manufacturing Co.  
42d AND CHESTNUT STREETS  
PHILADELPHIA, PA.

TRADE MARK  
*Raybestos*

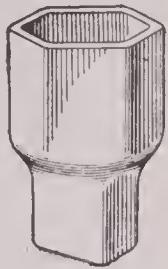
## FRICTION FACING

Is made IN ONE PIECE from asbestos.

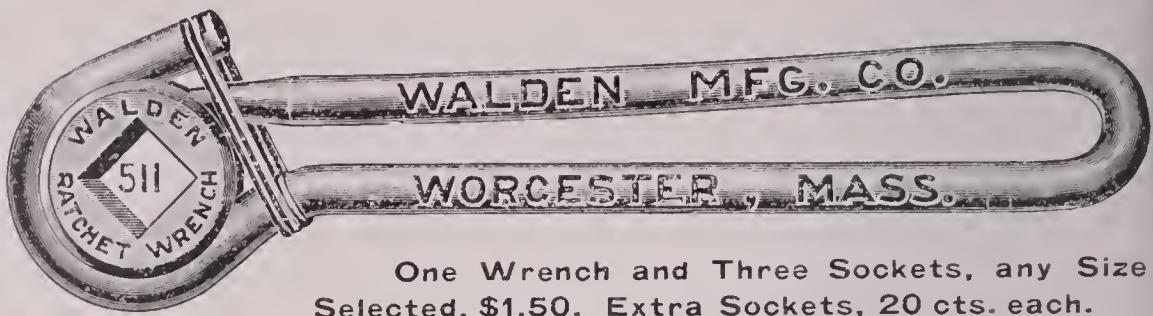
Is impregnated in such a manner that it is proof against heat, oil and grease.

Is an ABSOLUTELY DEPENDABLE Brake Lining. You owe to yourself to see that your brakes are lined with it, if you want to have complete control of your car on the steepest grades.

**ROYAL EQUIPMENT COMPANY**  
176 Housatonic Avenue      BRIDGEPORT, CONN.



STEEL SOCKETS FIT  
No. 511



One Wrench and Three Sockets, any Size Selected, \$1.50. Extra Sockets, 20 cts. each.

Hexagonal Sizes Only  
to Fit Heads

No. 06	$\frac{3}{8}$
No. 08	$\frac{1}{2}$
No. 09	$\frac{9}{16}$
No. 010	$\frac{5}{8}$
No. 011	$1\frac{1}{16}$
No. 012	$\frac{3}{4}$
No. 014	$\frac{7}{8}$
No. 015	$1\frac{5}{16}$
No. 016	1
No. 017	$1\frac{1}{16}$
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THE ONLY THREE-PIECE RATCHET WRENCH. NOTHING TO GET OUT OF ORDER. SIMPLEST POSSIBLE TOOL. THE HANDLE IS WIRE—BUT IT CAN'T BREAK—IT WON'T BEND—IT WILL STAND THE STRAIN—A STRONG, SERVICEABLE WRENCH, THOROUGHLY WELL MADE; Best of Selected Stock; Nickel Finish.

For Tire Lugs

No. 28	$\frac{1}{2}$ " Hex.	\$ .35	Each
No. 29	$\frac{9}{16}$ " Hex.	.35	Each
No. 212	$\frac{3}{4}$ " Hex.	.40	Each

WE MAKE SPECIAL WRENCHES

WE WANT YOUR INQUIRIES



The Auto Polish of Quality.

Restores the shine and surface to the body, leather trimmings, cushions and top, prolongs the life of the finish and greatly improves the appearance of the car.



The Metal Polish with the Elbow Grease in the Can.

More Polish, Less Work.

Wipes Freely, Contains no Acid.

Imparts a brilliant lustre to all Metallic Surfaces.

SOLD BY ALL FIRST CLASS DEALERS IN AUTOMOBILE SUPPLIES

If your dealer hasn't got them in stock, write us for our

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THE CLEANOLA COMPANY

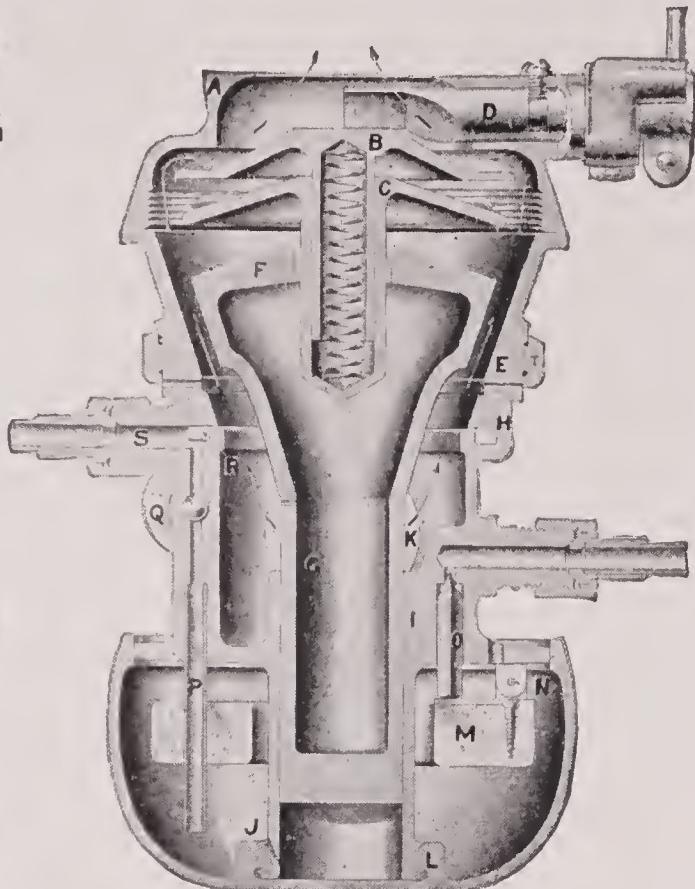
Fulton Building  
PITTSBURG, PA.

53 West Van Buren Street  
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# New Principle

THE

# Stewart Precision Carburetor



Sectional View.

You want the maximum of POWER  
on the minimum of FUEL.

You want quiet running and  
a UNIFORM MIXTURE at all speeds.

THE

## STEWART PRECISION CARBURETOR

will get you these results better than any instrument  
you have ever used, or your money will be refunded.

### NEW PRINCIPLE.

The proportioning of air and gasoline is accom-  
plished by **gravity**, acting on the one moving part,  
there being no **springs**.

### THE RESULT

is a consistent performance at all times. Write  
for descriptive matter

**Alfred C. Stewart Machine Works,**  
**LOS ANGELES, CAL.**

# FOUR GOOD THINGS

## MOBO AUTOMOBILE CLEANSER

is made as good as automobile soap can be made. It has a substantial body. Therefore it cleans easily, quickly and thoroughly. MOBO is also absolutely free from unecombined alkali. Because of this it works without injury. These things about MOBO mean much. They mean clean, bright cars, also long life to varnish and paint. Therefore we suggest—try MOBO—in 50c and \$1.00 cans.

## SHOFO HAND CLEANSER

is made of Castile Soap, powdered Pumicestone and green Olive Oil. These three SHOFO ingredients show a quick, easy and effective working out. To explain, the Castile Soap washes, the Pumicestone scours and the Olive Oil keeps the skin soft. This SHOFO way of hand cleansing is ease, speed and delicacy combined. It is better than all others. Therefore we say—try SHOFO. In 10c and 20c cans.

## HYGLO METAL POLISH

is different from all other metal polishes. It is one that eliminates the wait-while-it-dries feature. Also that rub-rub-rub which does tire. Instead the HYGLO way is quick, easy and sure. Then further a HYGLO shine is always even and brilliant, and one also that stays long. In that regard a HYGLO shine is distinctly long-lived, and the only one that is a real all-day shine. 15c, 25c and \$1.50 cans.

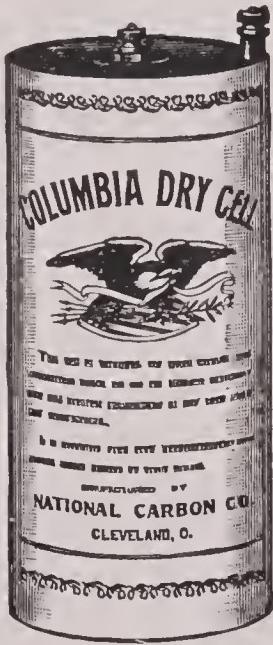
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is good for ears minus part of the fine varnished finish they had when new. That because LEVO fills in digs and covers up bare spots. At the same time LEVO gives a polish equal to a new coat of varnish, which does not wear off quickly, or come off in washing, because LEVO is an oil preparation and is waterproof. So if your ear shows varnish departed, but not enough to warrant the paint shop—Try LEVO, and it will make the ear look new. In 25c, 50c and \$1.00 bottles.

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**MOTOR CAR SUPPLY CO., 1451 MICHIGAN AVE., CHICAGO**

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by other MOTORISTS and equip your MACHINE with  
**COLUMBIA**  
or **COLUMBIA IGNITOR**  
“RED TOP” dry cells.



Don't accept SUBSTITUTES which may spoil your trip.  
INSIST on getting COLUMBIA cells. They cost NO MORE.

No Extra Charge for Fahnestock Clips

NATIONAL CARBON COMPANY

CLEVELAND, OHIO

#### On Dunlop Type

Over 8,000 miles with a Cadillac on Diamond Dunlop type tires and no tire trouble at all. That's what I think of the Diamond Dunlop Style of tires.

R. W. Emerson,  
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# What's Your Car?

Big or Little

# Diamond

#### On Fisk Type

My experience with Diamond Fisk Type or "bolted on" tires on my Stevens-Duryea has been so satisfactory that I shall certainly have none but Diamond in future.

N. L. Ely,  
Peekskill, N. Y.

Heavy or Light

## WRAPPED TREAD TIRES ARE FOR YOU

#### On a Large Car

I can well imagine that you receive many testimonials for Diamond tires, but I wish to add mine—that Diamond tires on my Peerless Car have been nothing short of extraordinarily fine.

Fred Hoke,  
Indianapolis.

#### Much Better

#### Cost No More

Quick Detachable

Regular Clincher

Mechanical (Dunlop)

And Fisk Types

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As a physician using a runabout in practice, I drive the car very hard and the tires must bear the brunt of it. Am pleased to say I find Diamond tires much better than all the others I have used.

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THE DIAMOND RUBBER CO. AKRON,  
OHIO

All supply houses sell

**DYKES'**

**Never Kreep**

**Tire Shoes**



This shoe is specially prepared with a cement coating, ready for instant use. Clings to inside of casing, same as if vulcanized.

**John L. G. Dykes Co.  
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## HAZARD OF NIGHT DRIVING

is reduced to the minimum only if you use reliable burners. The safety of both car and passengers depends then on this apparently unimportant little unit. "A chain is no stronger than its weakest link." No matter how good your lamps or gas supply, unless you have the best burner procurable.

When your lamps are new from the factory, they are equipped with some style of Alco burner, for all important lamp makers use ALCO. Then why not insist on Alco again when replacing broken and worn out burners? All dealers sell—we do **not** sell to consumers direct.

Ask Dealer.



Alco DeLuxe Genuine German Lava. All gas sizes. Hexagon base (Pat. Dec. 24, 1907) permits easy installation with wrench or pliers.

**AMERICAN LAVA COMPANY  
CHATTANOOGA, TENN.**



Always  
See  
the  
Road

Have a  
**Williams  
Shield**

put on your  
car while stop-  
ping over night.

1910

A Touring Car Shield When Top is Up      A Roadster Shield When Top is Down  
All in One      Fits All Cars      Nothing Like It

**20th Century Motor Car Supply Co. ... Sole Mfrs.**

Garage Department one block from Oliver Hotel.      Open day and night.      Machine Shop and Supplies  
121-125 South La Fayette Street, South Bend, Ind.

**NEVER MIND THE PUNCTURE**

**THAT CAN BE REPAIRED WHEN YOU GET HOME**

## **A Detroit Emergency Wheel**

attached to the rim of the wheel carrying the  
disabled tire, will enable you to drive for miles

**EASY TO PUT ON**

**LIGHT WEIGHT**

**REASONABLE PRICE**

Can be attached in less than one minute without removing the punctured tire

Ask Your Dealer for the **Detroit** Emergency Wheel

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**Ford Magneto = \$25**

For Ford Models N. R. S.

**Maxwell Magneto \$25**

For Maxwell Two-Cylinders

Does the work as well as any \$75 Magneto. Does it far better than any cheaper Magneto. No special coil required. Works with your present equipment. Brackets and everything necessary for installing furnished. The only Magneto backed by a 30-day free trial. Not an experiment. There are thousands in use. Write for catalog M. Which have you, Ford or Maxwell?

**HERCULES ELECTRIC CO.** 2128 to 2136 Northwestern Ave. **INDIANAPOLIS, INDIANA**

## **TIRES REPAIRED and VULCANIZED**

Blowouts repaired. Sectional repairs made. Casings retreaded and recovered. Tube punctures vulcanized. Motor cycle tires repaired.—We give you a **SQUARE DEAL** and **YOUR MONEY'S WORTH**. We can guarantee our repairs, because we use the best materials, employ efficient workmen, and operate our well-equipped shop under up-to-date methods. **We Sell New Tires.** Our Aim is Our Motto: "Right and Reasonable."

### **THE MODEL VULCANIZING COMPANY**

Phone: Calumet 531

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ON AUTOMOBILE WEARING APPAREL

*Means the Best of Its Kind At Any Price*

ALL LIVE DEALERS CARRY THE LINE

Protector Coats, Dusters, Rubber Shirts  
Cravettes, Leggins, Corduroy Clothing

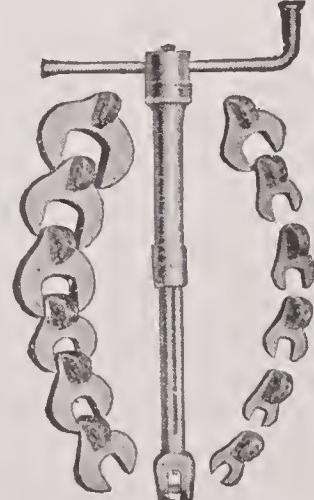
**THE DUCK BRAND CO. :: CHICAGO**

## **REX Adjustable Wrench Sets**

Extension Ratchet handle; Interchangeable heads; adjustable instantly to any position. Fits any nut, bolt or cap screw, square or hexagon, on any machine. All parts drop forged from high carbon steel and **ABSOLUTELY WARRANTED** against breakage.

**YOU NEED THIS WRENCH**

**REX WRENCH CO.**  
Hathaway Bldg, Summer St. BOSTON, MASS.



THE WORD **Thermoid**  
MEANS THAT GOODS SO BRANDED  
ARE ABSOLUTELY CORRECT

**Thermoid**  
BRAKE BAND LINING

**Thermoid**  
TIRES AND INNER TUBES  
MANUFACTURED BY THE  
**Thermoid** RUBBER COMPANY  
TRENTON, N. J.

## THE ROAD TO SATISFACTION



Equip your car with the GRAY AUTOCHIME. The Pioneer and Aristocrat of exhaust-blown signals. Some unscrupulous jobbers and dealers are offering imitations at prices from \$4.00 up. The Autochime sells for \$10.00. It's more than worth the difference.

See the name on the bell.

GRAY-HAWLEY MFG. CO. DETROIT, MICH.

Superior Motor Car and Motor Boat Accessories

**DIXON'S**  
**GRAPHITE**  
**MOTOR**  
**LUBRICANTS**

Supply lubrication for practically every part of the car; cylinders, transmissions, differentials, bearings, etc. The service these lubricants render is due to DIXON'S TICONDEROGA FLAKE GRAPHITE — the finest lubricating graphite the world produces. Use Dixon's and increase your car's efficiency.

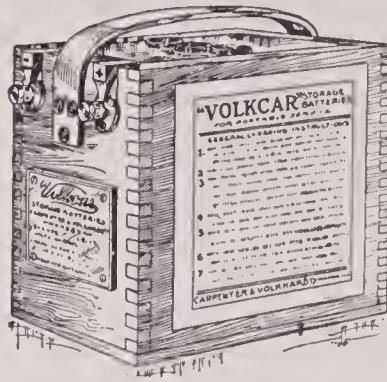
JOSEPH DIXON CRUCIBLE COMPANY, Jersey City, N. J.

# IN YOUR TRAVELS

YOU WILL NOT FIND A STORAGE BATTERY TO EQUAL THE

## VOLKCAR

TRY ONE AT OUR EXPENSE



# CARPENTER & VOLKHARAT

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is exclusive. No other carburetter on the market has an automatically controlled needle valve which apportions the exact amount of gasoline for the given amount of air, making the quality of the mixture constant, whether running five or fifty miles per hour, up or down grade.

Notice that the needle valve and the air inlet are so affixed to the same lever that any movement of the air valve gives a correct and proportionate movement of the gasoline inlet, thus insuring a perfect mixture at all times, under all conditions.

The Petre Carburetter is guaranteed to

1. Start your Engine not later than the 3d quarter turn.
2. Give Greater Flexibility in Slow Running.
3. Greater Speed—By increasing Quantity, without changing the Quality of the mixture.
4. Greater Power in Hill Climbing—Same reason.  
(25 per cent. more power on topping a hill—and we can prove it.)
5. More Mileage—Less Consumption—Mixture is never too Rich.

THE PETRE CARBURETTER CO.  
1839 Euclid Ave., Cleveland, O.



## Tire Problem Solved!



See Our  
"Guarantee Policy"

Sounds unbelievable, but it really does it. Besides, keeps the tires in good condition and increases their life. Demonstrated before Board of Governors Harrisburg Motor Club with great success.

In your own interest write today and get full particulars and price and discounts to dealers, or send 53c for a sample carton which is sufficient for a bicycle tire.

No remedy has been found that would heal punctured tires without injuring the rubber, until "PERMANIT" was discovered and put in practical use.

## "Permanit"

is imported from Europe and in use there for years and now in this country on the market for over a year and a half.

See what our customers say about it:

A prominent physician and ex-president of the Board of Trade writes:

"My Dear Sirs—I have used the auto car in the tires of which you put the material you call "PERMANIT," since November 21, 1907. It has not been necessary to pump up the tires since, although we have taken out of the tires several nails, tacks and pins. It appears to me to do the work."

We have many more similar to this and which are open to your investigation.

Refuse substitutes—let someone else try imitations Why buy imitations when we can furnish you with the genuine? Do not run any risk by trying something which has not been fairly tested to stand all kinds of weather and roads. "PERMANIT" has stood all these severe tests.

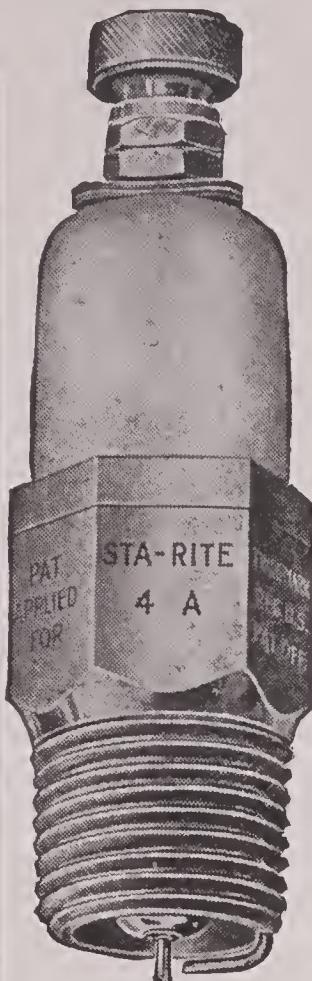
THE ADOLF KARL CO.  
245 Washington St. Newark, N. J.

SOLE AGENTS: Alabama and Georgia—H. Craig Chapman, Title Guarantee Building, Birmingham, Ala. District of Columbia and Maryland—Jacobson Bros. The Luttrell Co., 1028 Connecticut Ave., N. W., Washington, D. C. Illinois—Legnard Bros., Waukegan, Ill. Nebraska, Kansas and Colorado—Dr. J. W. Puckett, Geneva, Neb. New York—Permanit Co., of New York, Thoroughfare Building, 57th Street and Broadway, New York.

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Ignition Plugs Stay Right The Longest

TRADE MARK REG. U. S. PAT. OFFICE



No. 4 A. Half-Inch Separable Double Porcelain  
Price - \$1.25

## "VULCAN"

TYPE OF STA-RITE PORCELAIN IGNITION PLUGS

Metric, No. 6, Single, Adjustable Sparking Point.  
Price - - - \$1.25

A. L. A. M., No. 8A, Separable, Outside Sparking Points,  $\frac{1}{8}$ -inch-18th. Original Auto-car size. Price - \$1.25

Winton, No. 15 A.  
Price - - - \$1.25  
Extra Long.

### PART LIST

Porcelain Tube and Cap with Bolt, Point, Packings, Nuts and Springs. 50 cts.

With our double porcelains, the contraction and expansion is uniform, and cap protects inner heated tube. Practically no breakage or leakage with "VULCAN" STA-RITES.

### GUARANTEE:

We agree to repair, free of charge, perpetually, any Sta-Rite Plugs returned to our factory, at any time.

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TYPE OF STA-RITE MICA IGNITION PLUGS

A. L. A. M., No. 28A. Separable, Outside Sparking Points.  $\frac{1}{8}$ -inch-18th. Original Auto-car size. Price - \$1.50

Metric, No. 48. French Metric. Separable, Outside Sparking Points. Copper Gasket Spun over shoulder.

Price - - - \$1.50

Thor, No. 51. Same as No. 48, except with special long bolt to fit Thor Motorcycle terminal. Price - \$1.50

Hedstrom Plug for Indian Motorcycles. Price - \$1.50

Mica Insulator, complete, threaded to fit Nos. 28A, 32A, 48, 51 and Hedstrom.

Price - - - \$1.25

All "Venus" Sta-Rite Mica Plugs are constructed with solid bolts from Bessemer steel rod, which do not stretch, and mica does not loosen. The inner India mica core is made with no shellac or other sticking substance. The perfect mica washers are compressed under great pressure, and machine turned to a finely glazed surface, which with ample air space is practically soot and waterproof, and cannot be broken in service.



No. 32 A. Half-Inch Separable  
Price - \$1.50

## THE R. E. HARDY COMPANY

INCORPORATED 1900

Factory, 201 37th Street, BROOKLYN, N.Y.

Fisher Building, CHICAGO

**Get a Stepney**  
**And Get There-**  
**Anywhere**

No matter what kind of roads you have to travel, and no matter what kind of pneumatic tires you ride on, you are liable to have a puncture or blowout at any time. If you try to repair it on the road, it takes time and work--dirty work, too. If you continue your journey without attempting to mend the tire you will ruin it, and tires cost money.

Stepney

PATENTED  
FEB. 18, '08

**Just Get a Stepney and you Won't Have to Do Either**

you won't even soil your hands. Simply attach it to the rim of the injured tire. Anybody can do it. One use of the **Stepney** usually pays for the device, but it can be used interminably. Ask for the **Stepney** anywhere, and get it, or write for Catalog "A"

**Spare Motor Wheel of America, Ltd.**

GEO. S. MORROW, Sales Manager

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## Non-Explosive Gasoline Tanks



One of the most important features in storing explosive liquids is the question of Safety

The IMPERIAL Non-explosive Tank is safe in every particular. It is scientifically impossible to explode any tank or can fitted with our non-explosive devices. Our tank is just as safe above ground as the other tanks that are buried.

Our over-ground system lasts ten times as long as the buried tanks, you get no water in your gasoline by your tank absorbing dampness from the ground or from sweating.

Write for our catalogue and full particulars.

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THE UNIVERSAL SAFETY  
TANK & CAN COMPANY

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# Empire Wear Tires Longest

EMPIRE AUTOMOBILE  
TIRE COMPANY, Trenton  
N. J.

## BRANCHES:

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# DON'T GO HOME ON THE RIM



USE



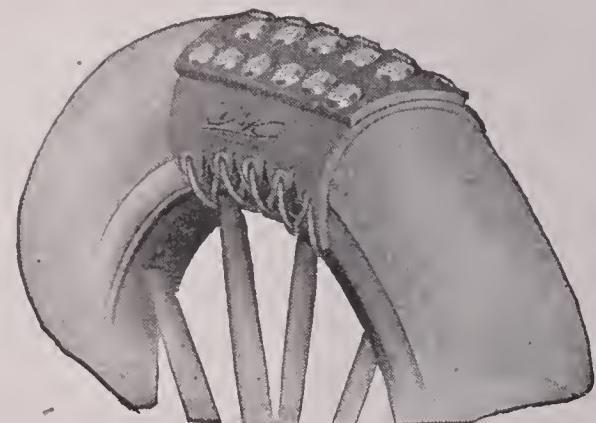
## TIRE SLEEVES

They are an "ever ready" relief for blow out troubles.

Heat and cold, mud and water, will not injure them.

Made in three sizes, viz:

- No. 1. For 3-inch tire.
- No. 2. For 3½-inch or 4-inch tire.
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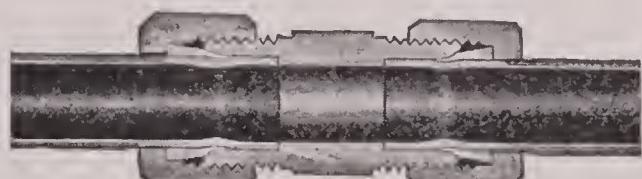
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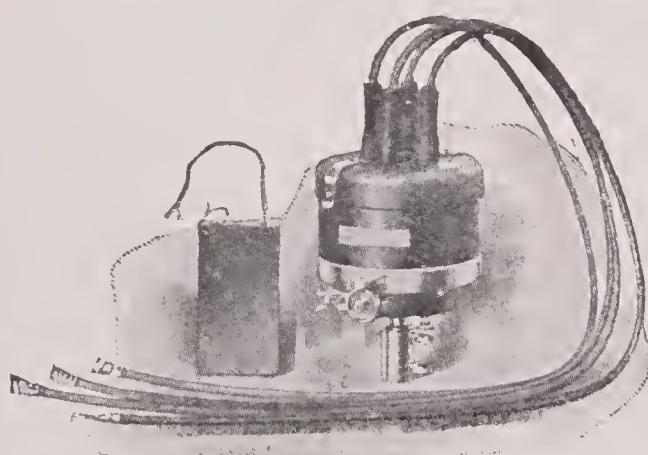
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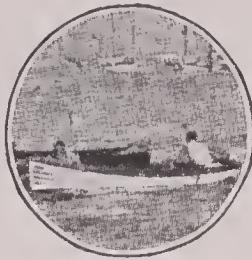


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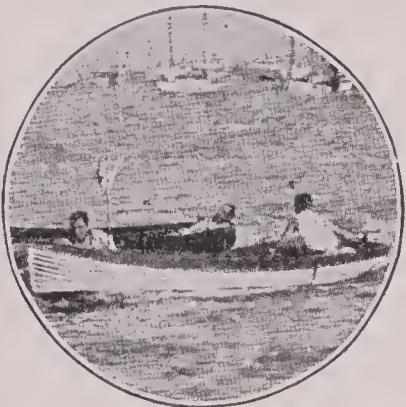
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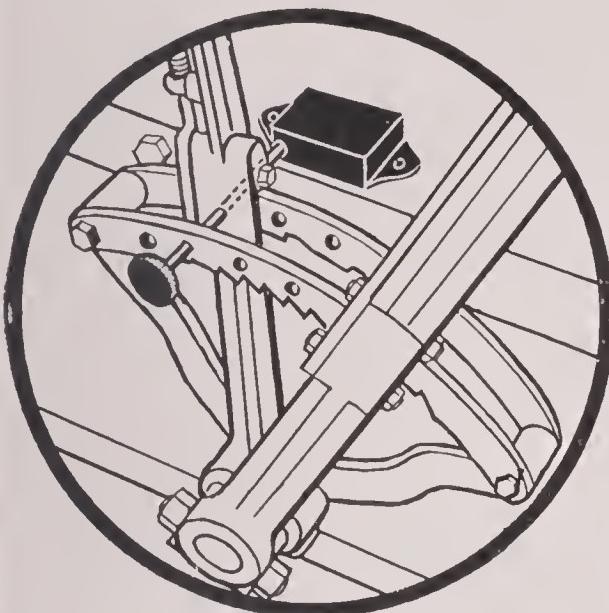
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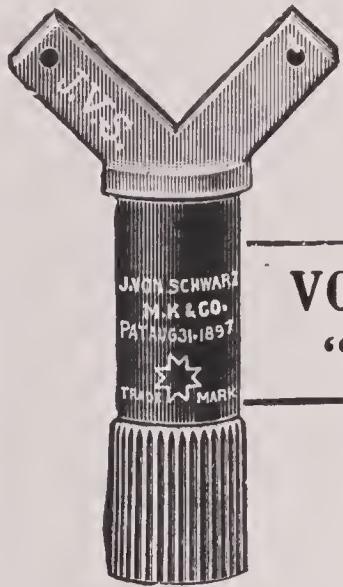
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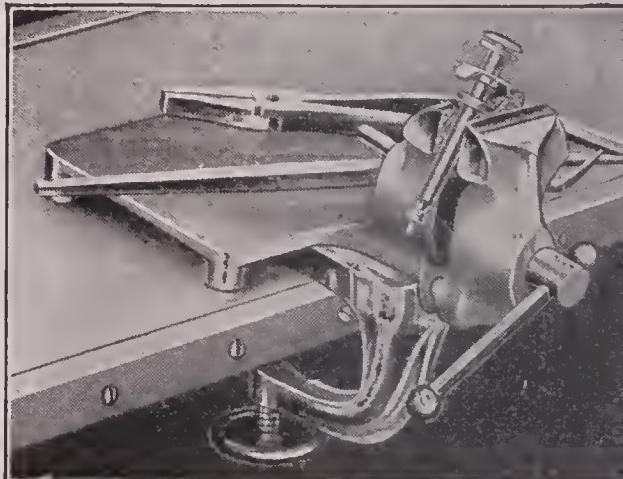
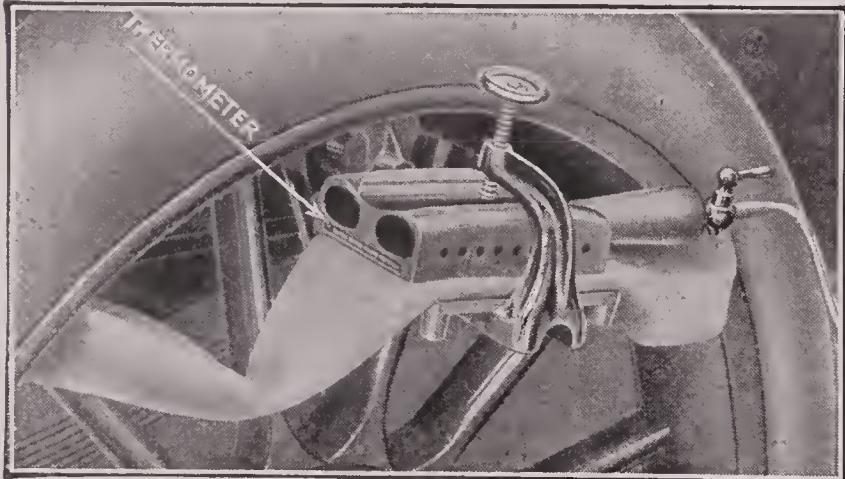
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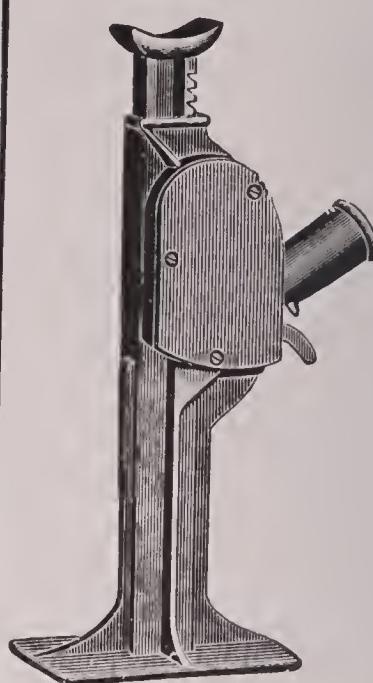
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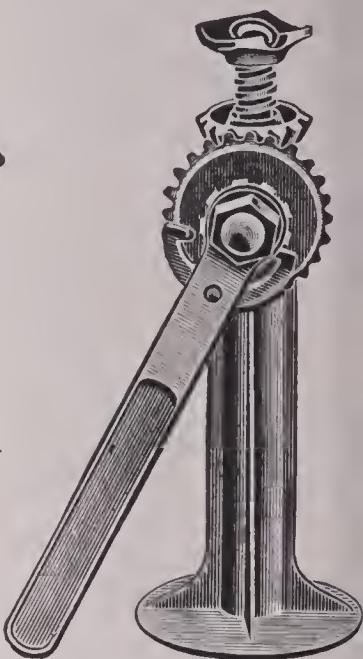
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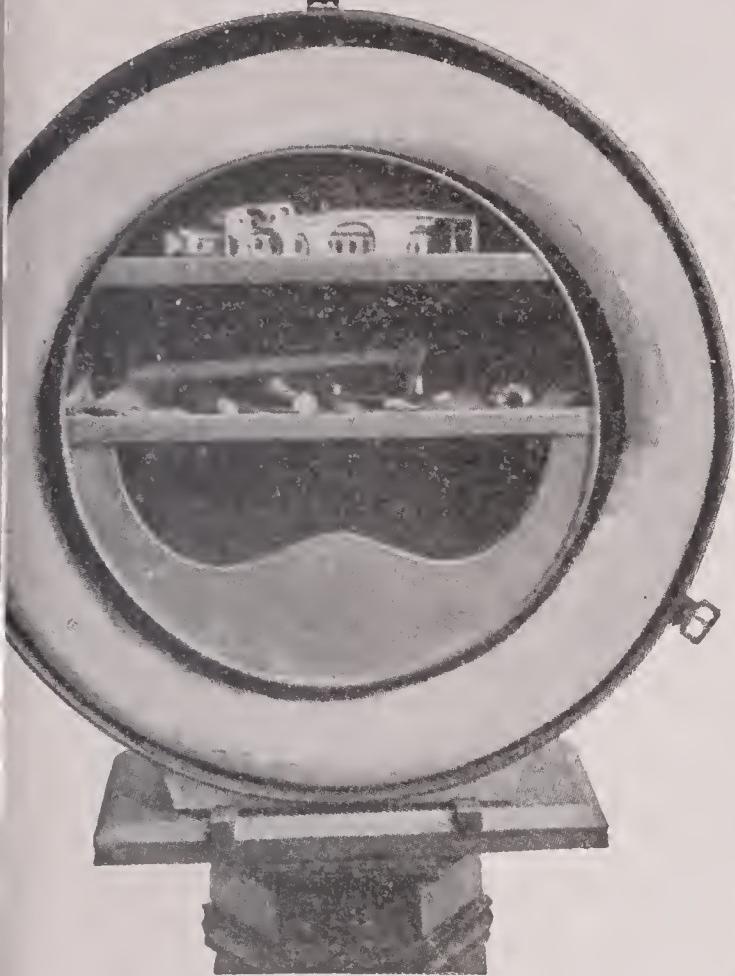
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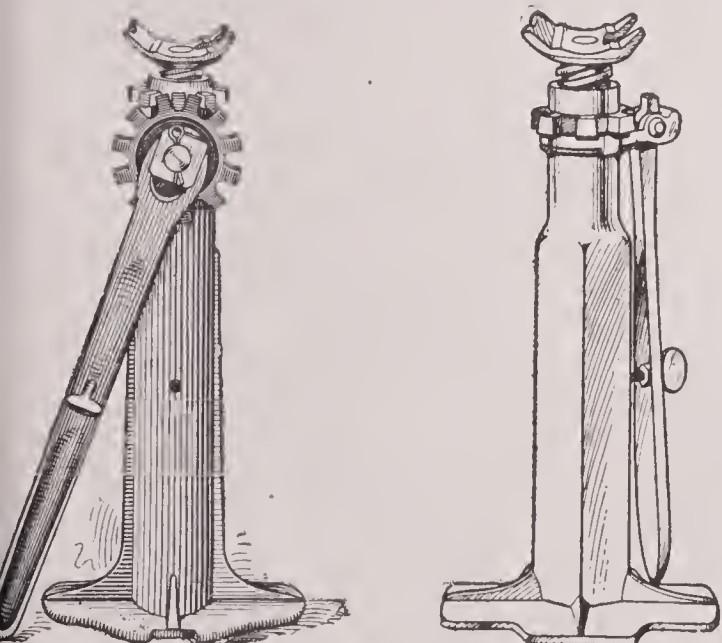


Cut shows case with cover removed, displaying tires, tools, etc. The lower space within the circle holds shoes, caps, gloves inner tubes—or any articles used in touring. The tire space takes two shoes, the upper spaces a full equipment, thus doing away with all other appliances carrying extras. The cost of the Dow Tire and Tool Case is much less than that of the many pieces of equipment needed if this case is not used on your car. Patent pending.

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Patent Allowed.



1907 Atlas Nos. 1, 2, 3.

Height over all, No. 1 10 inches. No. 2, 11 3/4 inches. weight No. 1, 5 lbs; No. 2, 6 lbs.

The lever has an up and down motion. It is slotted at the end so as to move in or out, to engage from 1 to 4 teeth in the wheel.

The head revolves on the end of the screw so that the jack can be worked at any angle or in cramped places. The head fits the truss brace, round or square axle.

Raises any automobile with wheels 22 inches or over. You cannot have an accident with this jack.

The screw is one inch in diameter.

For quick work raise the screw up against the axle and spin the nut down until tight then two or three strokes of the lever raises the wheel.

A good jack is just as essential as good roads.

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The Sireno is reliable, for it is operated by the regular six-volt ignition battery. It is independent of the engine—never fails to work—doesn't drain the ignition battery. And if you have a magneto, any six-volt battery will run the horn. The Sireno is built of the best materials and is beautifully finished. It is light—compact—easily put on your ear in a few minutes.

The Sireno is ball-bearing throughout—self cleaning—perfectly protected from dust and water. It needs no care—has no vibrator—nothing to wear. And you can place the switch wherever you want it. Price \$35 complete.

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Built on the same principle as the Sireno, except that it is smaller—produces a lesser volume of sound—and has no automatic brake. A wonderful horn at \$25—suitable for any car. For summer touring, there is no better horn for any car than the Sireno Junior with the long Projector. Its note will carry for almost two miles on a country road. Price, complete, \$28.

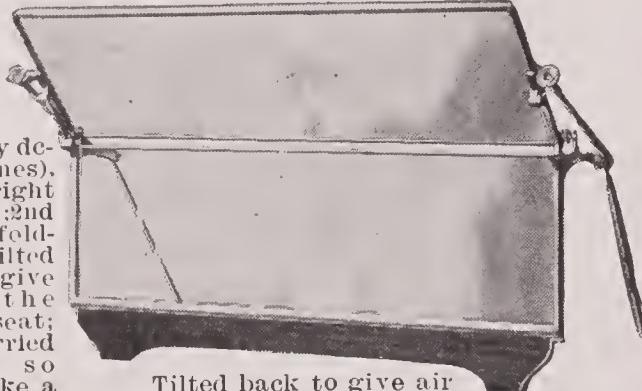
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**The Sireno Co., 39-41 Cortlandt St., N.Y.**

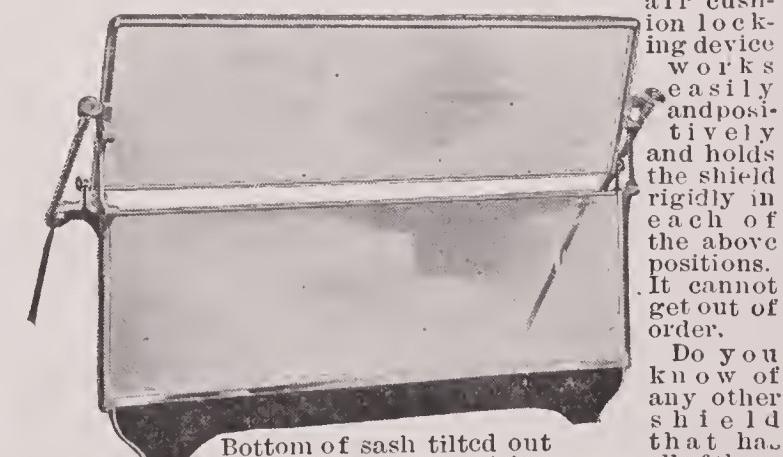
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It can be rigidly held in four positions (the only desirable ones). 1st. Upright or closed; 2nd. Down or folded; 3d. Tilted back to give air to the back seat; 4th. Carried forward so as to make a clear space between the upper and lower sash, so you can see your way in rainy weather. Our air cushion locking device works easily and positively and holds the shield rigidly in each of the above positions. It cannot get out of order.



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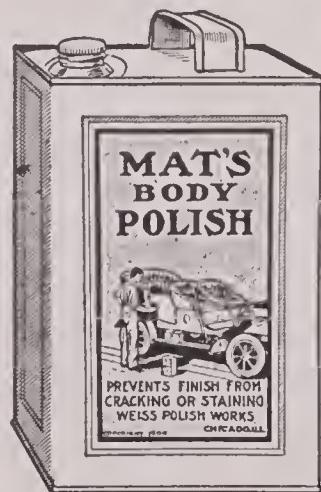
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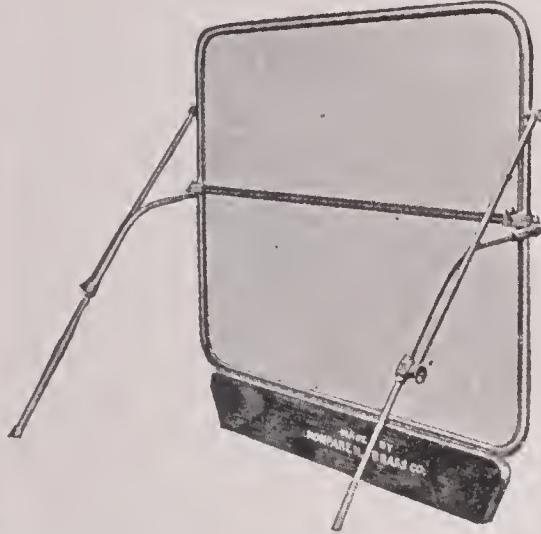
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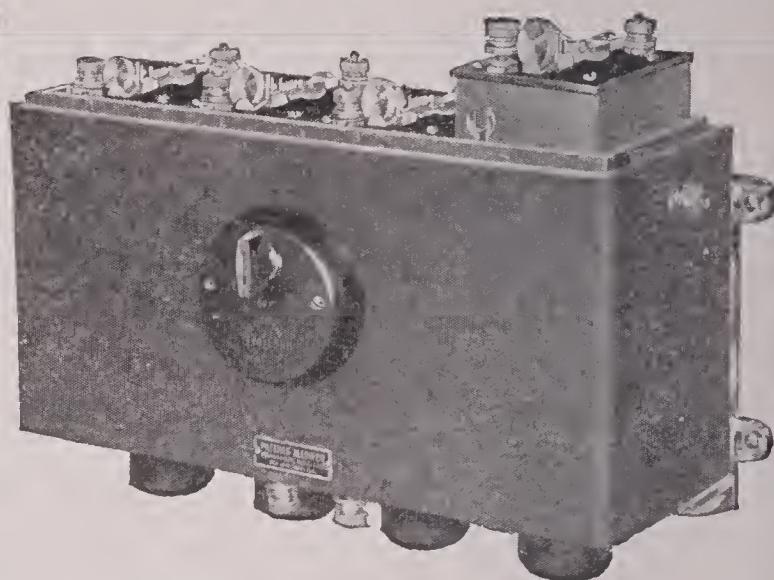
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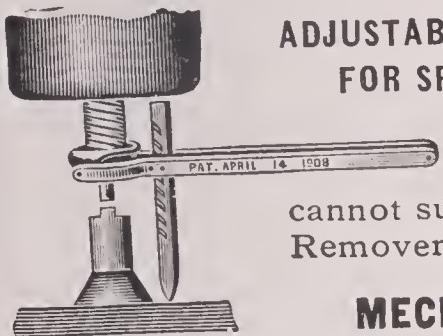
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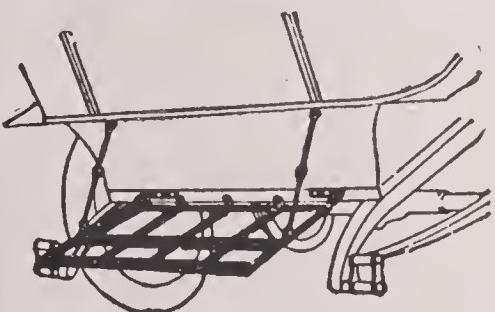
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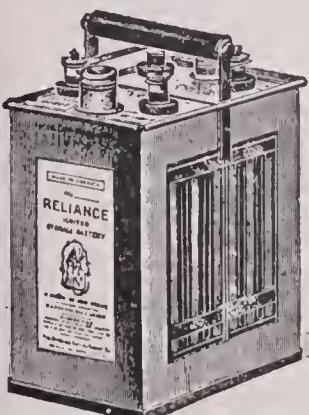
Made for service and in sizes to fit any car. Is made of light cold rolled steel, black enamel baked on. Will outlast and give better satisfaction than any Trunk Rack on the market today, in fact will outlast the car. The racks are made adjustable wherever possible and can be put on any car. They stand for efficiency, durability and reliability. If you want the best, most convenient and most substantial Trunk Rack on the market at a fair price write us. Money refunded if not as represented. Orders filled promptly.

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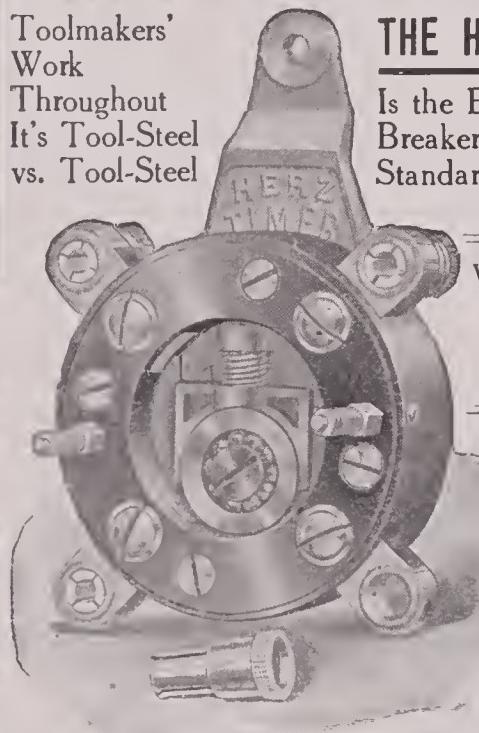
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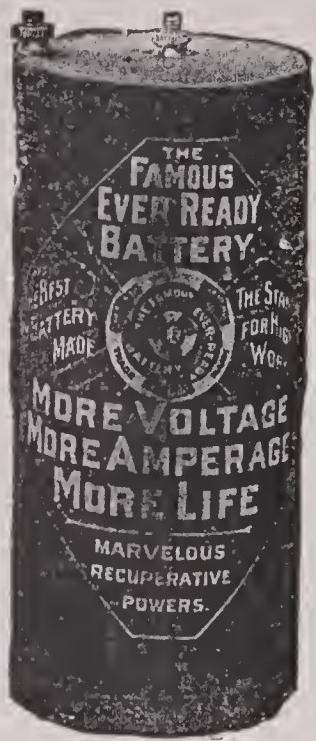
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Copies of the directory are fifty cents each.

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Market and Forty-ninth Streets, PHILADELPHIA

**"Eveready" Dry Cells**  
The Battery of Quality



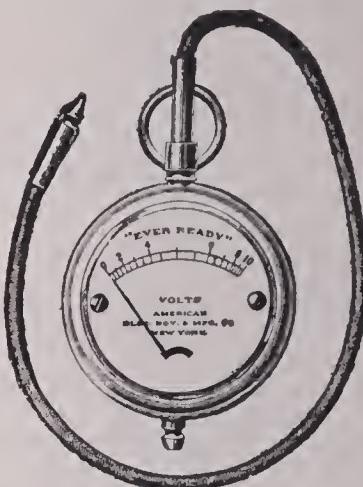
- No. 406. Type "J"  
 $2\frac{1}{2}$  x 6 inches . . . 25c  
No. 407. Type "K"  
3 x 7 inches . . . 50c  
No. 413. Type "L"  
 $3\frac{1}{2}$  x 8 inches . . . 60c

**"EVEREADY" POCKET METERS** (HAND CALIBRATED)

Size to fit the vest pocket.  
Without doubt the smallest,  
neatest, most accurate and  
most reliable pocket current  
meter.

- No. 1002 Ammeter . . . \$3.00  
0-30 Amperes  
No. 1003 Volt-ammeter 4.00  
0-30 Amperes, 0-14 Volts  
No. 1005 Volt-meter . . . 3.00  
0-10 Volts

Each instrument in a  
chamois leather case.



No. 1002 Ammeter

**"Eveready" Bull Dog Battery Connectors**



They never let go.

Eliminate all ignition  
troubles caused by loose  
battery connections.

**BEWARE**  
of worthless infringements.

Price, per box of 10 . . . 60c

**AMERICAN EVER READY COMPANY, 184 LAKE STREET, CHICAGO, ILLINOIS**

*THE SUN SHINES IN GOOD WEATHER*

# Blue Ribbon Auto Cream

SHINES ALL THE TIME



## THE 20th CENTURY METAL POLISH

REMOVES TARNISH INSTANTLY  
DOES NOT SETTLE. LEAVES NO  
POWDER OR SEDIMENT 

It Is There With the Shine in Quick Time

**SEND 10 CENTS FOR TRIAL CAN**

Sold by  
Jobbers and Dealers  
Everywhere

**INTERNATIONAL METAL POLISH COMPANY**  
Indianapolis, Indiana

# POLARINE OIL

PERFECT LUBRICATION OF ALL TYPES OF AUTOMOBILES. ALSO ADAPTED FOR MOTOR BOAT LUBRICATION

## A CARBON AND FROST PROOF OIL

LOW CONSUMPTION—PERFECT SATISFACTION—SURE LUBRICATION

SOME OF THE CHARACTERISTICS THAT MAKE POLARINE OIL BEST SUITED FOR ALL TYPES OF GASOLINE ENGINES USED IN AUTOMOBILES AND MOTOR BOATS

### MEDIUM POLARINE OIL

Was used on FORD CAR No. 2, winner of the New York-Seattle race, over entire route.

## TRANSMISSION LUBRICANTS

### POLARINE GREASE

FOR DIFFERENTIALS, AXLES, BALL AND ROLLER BEARINGS, UNIVERSAL JOINTS, ETC.

POLARINE TRANSMISSION LUBRICANTS "A" AND "B"  
SEMI-FLUID OILS OF GREAT ENDURANCE—OF CUSHIONING PROPERTIES—FOR  
THE LUBRICATION OF TRANSMISSIONS

If your dealer cannot supply you, address

## STANDARD OIL COMPANY

## MOTOR TROUBLES

come to all who do not use the kind of Spark Plugs that will work under all engine conditions, regardless of dirt and moisture. In

### VANGUARD SPARK PLUGS

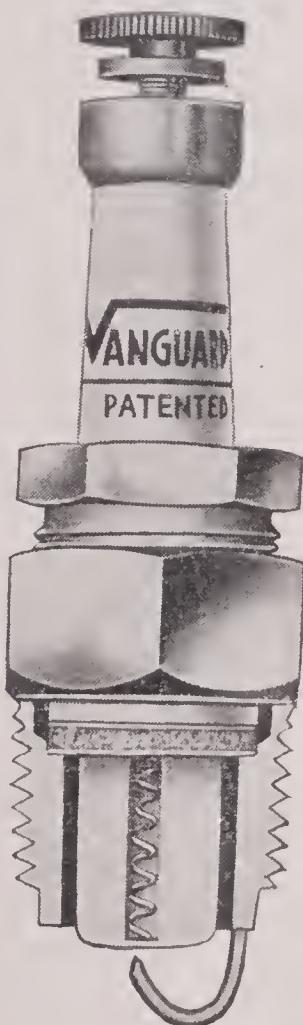
the central firing pin or point has been eliminated

and the spark is forced to a connection with spiral platinum wire encased in porcelain through a microscopic aperture that does not permit even air to enter.

The absence of firing pin or point causes greater resistance with a hotter spark that means more power, and however sooty the plug may become, a clean circular spot is found where closing of circuit is forced. Let the VANGUARD Spark Plug demonstrate its efficiency.

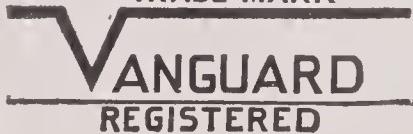
Standard  $\frac{1}{2}$ -inch and metric thread \$1.

A. L. A. M. \$1.25. Sent postpaid on receipt of price.



Look for the Trade Mark.

TRADE MARK



It means perfect goods and fair prices.

VANGUARD MANUFACTURING COMPANY

JOLIET, ILLINOIS

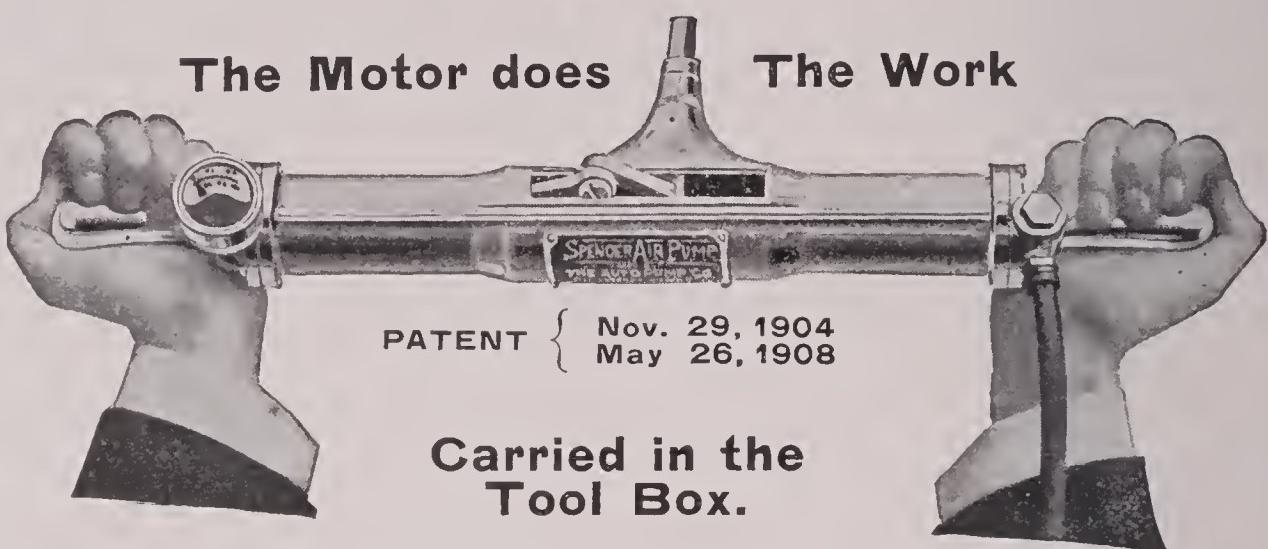
Manufacturers of the famous Vanguard Wind Shields

OUR LINE FOR 1909-1910

# The Spencer Power Air Pumps

The Motor does

The Work



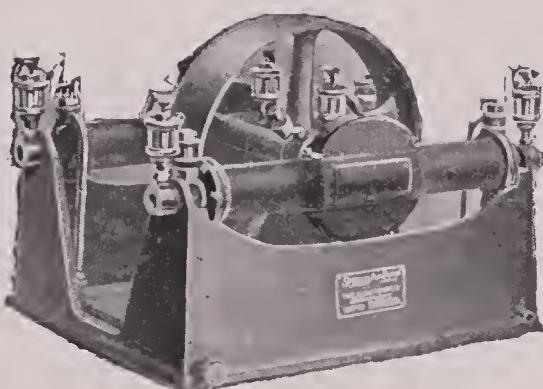
PATENT { Nov. 29, 1904  
May 26, 1908

Carried in the  
Tool Box.

This Pump is built like a high-grade engine, cylinder, pistons and piston rings, ground to the thousandth part of an inch. There are no leather packings to dry or wear out. It will inflate your tire in two minutes, saving time and labor. It will increase the life of your tires by keeping them properly inflated.



MADE IN FIVE SIZES.



Our four cylinder Garage Pump is made up of drop forged pistons and cranks and equipped with piston rings.

It will give a high pressure and large volume, and will do the work of a pump costing twice the money.

ASK FOR CATALOGUE AND PRICES

**THE AUTO PUMP CO.,**  
**SPRINGVILLE, N. Y.**

# GORDON TOP HOOD

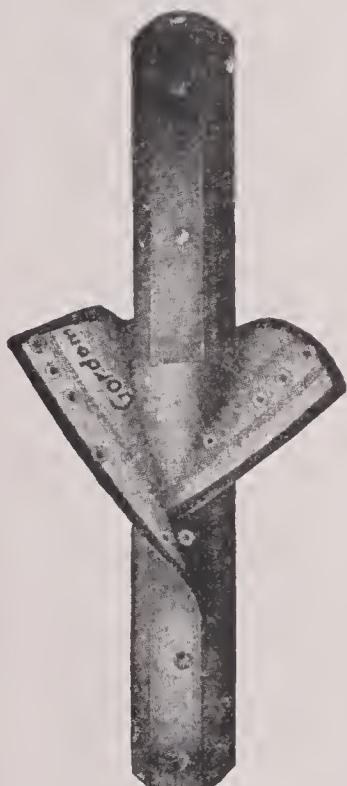
Fits Neat  
and Smooth



Keeps Top Clean

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## GORDON NEW ENGLAND TIRE COVER



Buttons on the tread  
of the tire—don't scratch  
polished surface : : :

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C A T A L O G U E   F R E E

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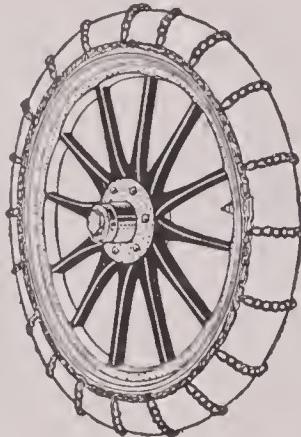
The Vehicle Apron & Hood Co.  
COLUMBUS, OHIO

# IT MAY RAIN TO-DAY

or to-morrow or next day. Then you'll need Weed Chain Tire Grips. And you'll need them badly. There is only one way that you can be positively sure that your car is not going to skid off the road, and that is — by using

## Weed Chain Tire Grips

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Weed Chains are easily attached or removed. They are in use only when you need them. They occupy but little space in the tool box. The new Weed cross chains are BRASS PLATED— see that you get them.

## Weed Chain Department United Manufacturers, Inc.

76th Street and Broadway

New York

# THE WELL-KNOWN GILBERT TIRE CASES

Need no recommend—ask  
the man who uses one

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Manufacturers of  
Gilbert Tire Covers  
Gilbert Tire Sleeves  
Gilbert Spark Plug Cases  
Gilbert Rubber Covers  
Gilbert Over Rail Boots  
Gilbert Tool Rolls  
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## Gilbert Manufacturing Company New Haven, Conn.

(TRADE MARK REGISTERED)

For Cleaning  
Automobiles  
Carriages

# GREEN OIL SOAP

Varnished  
Surfaces  
and Harness

is the highest grade

# GREEN OIL AUTO SOAP

(TRADE MARK REGISTERED)

Does not injure the varnish, paint or leather. Quickly removes grease, stains and dirt from autos, leather, clothing, hands, etc., without the least injury. Does not necessitate an additional application of a finishing polish to restore the lustre to the auto body. This soap has been tested on a highly polished wood panel 1350 times and the polish and finish is still perfect.

**MONAHAN ANTISEPTIC COMPANY,  
92 Market Street, Chicago.**

Sole Manufacturers

Telephone Main 277

# SHALER

ELECTRIC VULCANIZERS

KEEP  
UP | DOWN  
YOUR | YOUR  
TIRES | EXPENSES



There is nothing that will so add to the comfort of a tour, as the knowledge that you have nothing to fear through punctures and blow-outs.

A SHALER will keep your tires in perfect condition and appearance.

A. C. SHALER CO., WAUPUN, WIS.

Est. 1884

Inc. 1902

## The Illinois Carriage Lamp Co.

Repairers of all styles of

**Auto Lamps, Horns and Generators**

Telephone—North 816

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WE CARRY

the largest and most select grades of

## SPONGES AND CHAMOIS

FOR

### Auto and Carriage washing

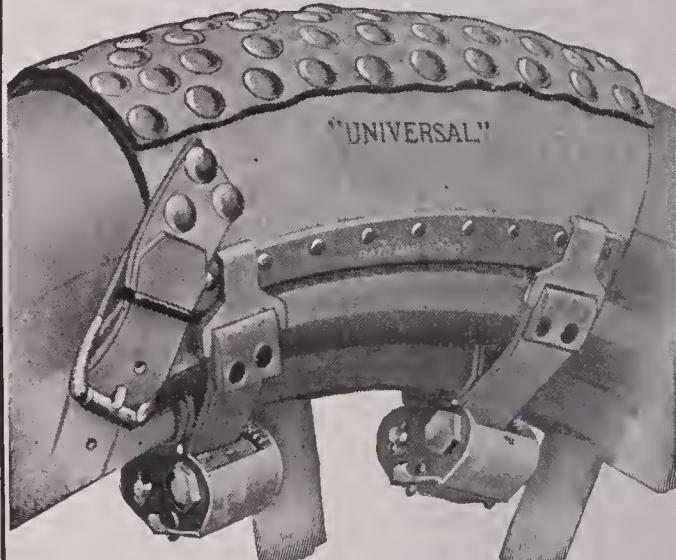
Our goods are especially selected for durability

**"UNIVERSAL"**  
**DETACHABLE FULL TREAD**  
**(IMPROVED)**



The full tread protector with an adjustable tension anchorage. Unlimited tension and adjustment. A positive non-detachable anchorage, which eliminates all possibility of tire injury from friction or abrasion. Special steel stud rivet traction armor, with protecting armor all the way over, affording positive traction, absolutely non-skid and puncture proof. A safe and sane tire protector for all possible road conditions. Write for descriptive circulars and prices.

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**EMERGENCY TIRE SLEEVE**



For temporary protection and repair. Ratchet tension anchorage. Instantly adjusted. It is placed or removed in a "jiffy." No lacing. No tools, but the little wrench. The "Universal" sleeve is guaranteed to bring you in on 4 wheels in any case of tire injury from a scratch to a blow-out. Saves you time, saves your temper, saves your tires.

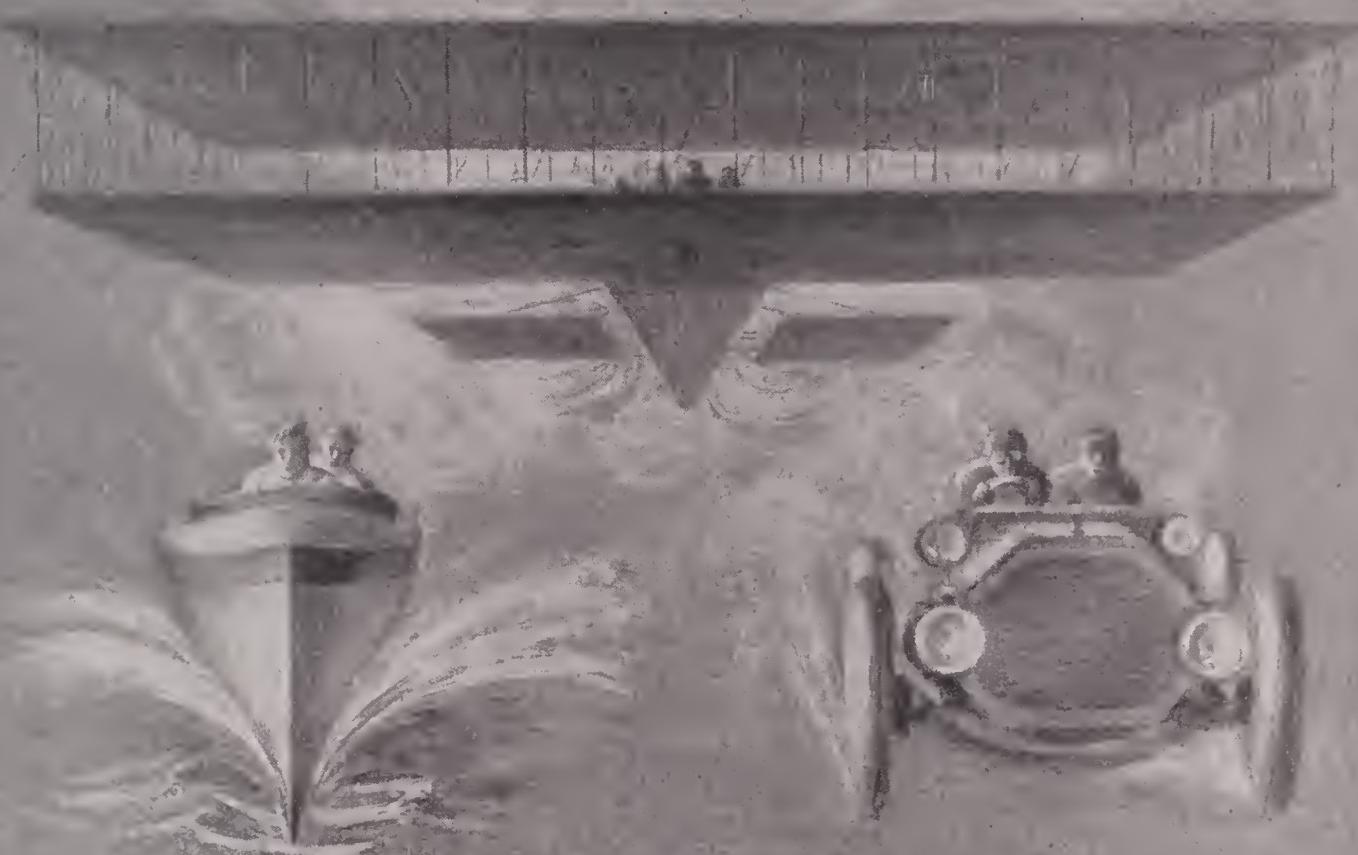
Write for descriptive circulars and prices to dealers.

**MOTOR CAR SUPPLY CO.**  
Chicago Agents.

**UNIVERSAL TIRE PROTECTOR CO.**  
Angola, Ind., U.S.A.

# HAVOLINE OIL

(FOR LUBRICATION)



*"It Makes a Difference"*

Havoline Oil has a high fire test and just the right amount of body. It is filtered free from all carbon producing impurities.

It is the best gas engine oil made.

## HAVOLINE OIL COMPANY

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BUMPERS  
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# PANHARD OIL

*"The Oil in the Checkerboard CAN"*



will prove to you by a test on your own car that it pays to be careful in the selection of cylinder oil and other lubricants. Thorough lubrication and freedom from carbon at the same time are results worth trying for.

DON'T ECONOMIZE ON YOUR OIL—it is poor economy. Poor cylinder oil will increase your repair bills far more than the slight saving in price originally.

WE CANNOT MAINTAIN Panhard quality and compete with cheap prices and we will NOT lower the quality. You will thank us for it in the long run.

PANHARD OIL has set the standard by which other cylinder oils are judged. Why not get the best? Send for our booklet, "Lubrication."

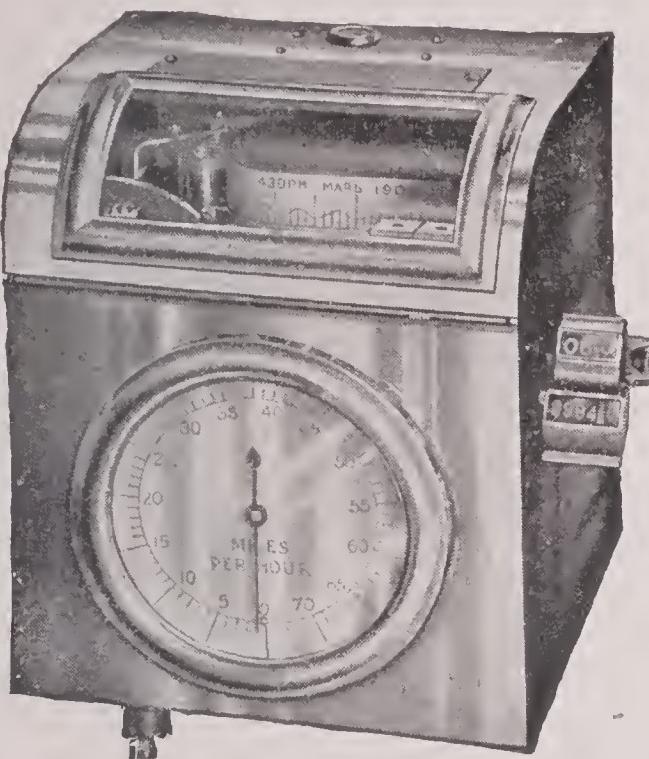
## GEORGE A. HAWS

73 PINE STREET

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Every owner of an Automobile needs a

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**Because:** It gives a plain and permanent record of his car; it tells how far the car goes; it tells how fast it goes; it tells when it stops and how long it stops.

**Because:** This record can be referred to at any time and is absolute proof of the speed of your car. It is better than a watchman in keeping your car from unauthorized use.

**THE ONLY INSTRUMENT THAT TELLS AND TELLS  
TRULY EVERY MOVEMENT OF AN AUTOMOBILE—ALL  
THE TIME :: :: WORKING EVERY MINUTE—DAY AND NIGHT**

*Each  
Recometre  
Combines*

A Record  
A Speedometer  
A Clock  
A Calendar  
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A Trip Meter

*Six Distinct  
Devices in One*

**Price, Style "A" for Automobiles \$100.00**

**Chicago Recometre Company**

**1251 MICHIGAN AVENUE :: :: CHICAGO**

EQUIP YOUR CARS WITH  
**HEALY RIMS**

(DEMOUNTABLE TYPE)

Fits any tire and enables that tire to be  
changed in three minutes.



Spare tires carried inflated on extra rims at the side of the car.  
Healy Rims fitted to any wheel in one day.

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PRICE MODERATE

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**HEALY LEATHER TIRE CO.**  
90 Gold Street - - - New York City

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CHICAGO AGENCY:  
The Motor Car Supply Co. - - 1451 Michigan Avenue



## The **SQUEAK DEVILS'** finish Mexican Graphite

## Automobile Lubricants

Reduce friction, smooth out kinks and stop squeaks. Put new life into old machines; give smoother, greater power to new ones.

### **Minimize Wear and Save Repairs** by Using Only

U. S. G. Co's Grafita for sprockets and chains

U. S. G. Co's Graphite Auto Lubricant for general lubrication

U. S. G. Co's Graphited Wood Grease, No. 360, for enclosed gears

U. S. G. Co's No. 205 Lubricating Graphite mixed with oils and greases

These lubricants carry just the correct proportion of pure soft Air Floated Lubricating Graphite---not "flake" graphite but powdered graphite of impalpable fineness, absolutely free from grit and of such a peculiarly adhesive nature as to cause it to "stay put" (something that "flake" graphite will not do) on that part of the bearing with which it comes in contact.

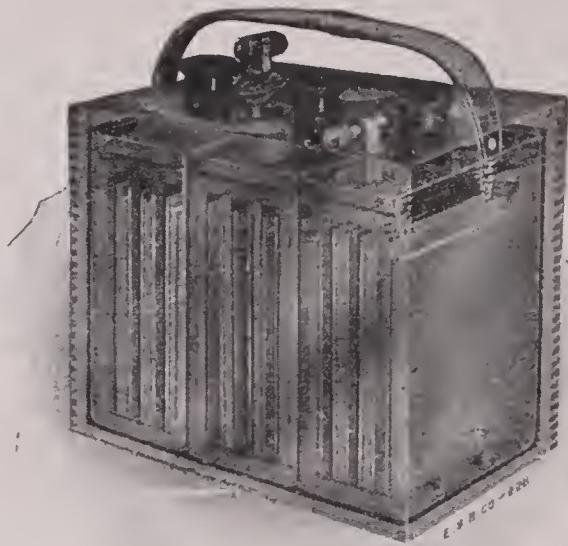
**THE UNITED STATES GRAPHITE CO.**  
GENERAL OFFICES AND FACTORY, SAGINAW, MICHIGAN, U. S. A.

Branch Offices: New York, Philadelphia, Pittsburgh, Chicago, Denver, Seattle

# The "Exide" Sparking Battery

It Stands in a  
Class by Itself

It is made by a manufacturer having 20 years' experience in battery making



The great Steam and Electric Railways, Central Lighting and Power Stations, Telegraph, Telephone, Fire Alarm and Signal Companies use batteries made by this Company. This is a safe guide—Specify the

"Exide"

## The Electric Storage Battery Co.

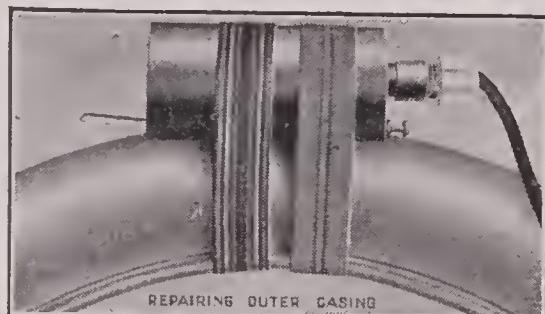
1888

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1909

New York      Boston      Chicago      SALES OFFICES      St. Louis      Cleveland      Atlanta      San Francisco      Toronto

"Chloride Accumulator" "Tudor Accumulator" "Exide Accumulator"



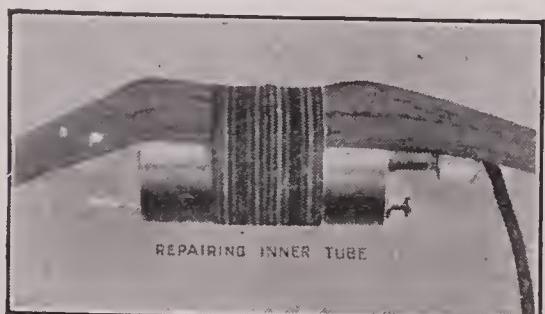
### PREPARE FOR EMERGENCIES ON THE ROAD

Buy a Buffalo Electric Vulcanizer and  
**REPAIR YOUR OWN TIRES**

outer casing or inner tube—for a few cents at night for next day's touring. Don't go to repair shop.

**SAVE TIME, SAVE MONEY, SAVE PATIENCE**  
Our introductory price will surprise you.  
Write today for "Tire Troubles."

**Buffalo Electric Vulcanizer Co.**  
822 Erie County Bank Building      BUFFALO, N. Y.



One of Our 25 Different Styles

Largest Manufacturers of  
**AUTO TRUNKS, LUGGAGE CARRIERS**  
**Covers, Fabric Goods of Every Description**

Write for our "1909" Catalogue and Price List

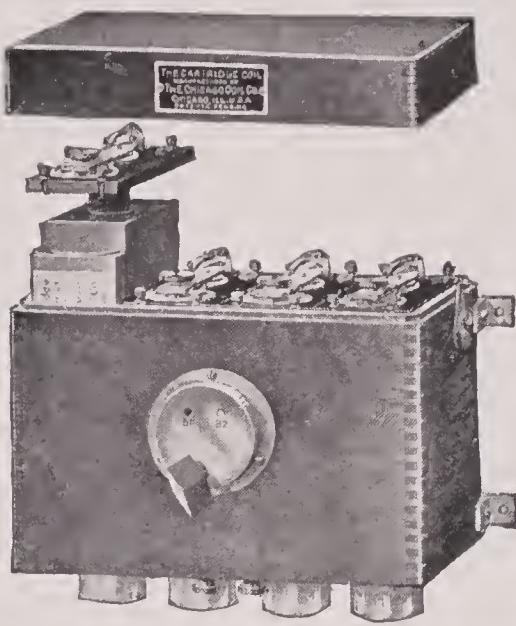
**AJAX TRUNK AND SAMPLE CASE CO.**  
91-93 Mercer St., NEW YORK

CHICAGO REPRESENTATIVES  
**HEINEMAN AND HENSLEY**  
1461 Michigan Ave.

# Cartridge Coils

This coil is so made that you can replace any part in a few seconds' time.

No units to throw away. Economical on current. Has the switch with a memory which saves platinum wear and is in every way a superior article.



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- 1 Cylinder, \$10.00
  - 2 Cylinders, 20.00
  - 3 Cylinders, 30.00
  - 4 Cylinders, 40.00
  - 6 Cylinders, 60.00
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Parts are standard and interchangeable

GUARANTEED FOR ONE YEAR

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## Cartridge Coil Company,

LAFAYETTE,  
INDIANA

Motor Car Supply Co., Chicago  
Standard Auto Supply Co., Chicago

Chicago Vulcanizing Co., Chicago

## FISK QUALITY

### Adds to Your Touring Comforts

We make tires to fit any rim and maintain Branches in seventeen principal cities in the United States

BOLTED-ON CLINCHER    Q. D. CLINCHER

REMOVABLE RIMS

Phone, Wire, Write or Call at

**THE FISK RUBBER COMPANY**

Boston  
Springfield  
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Chicago  
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St. Paul  
Denver  
San Francisco

New York  
Buffalo  
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Los Angeles

Factory: Chicopee Falls, Mass.



# SULLIVANOIL

IS A TRIPLE FILTERED,  
HIGHLY REFINED PE-  
TROLEUM LUBRICANT

*Absolutely Free from Carbon, Dirt,  
Grit, Gum, Acid, Etc.*

GUARANTEED  
TO GIVE  
PERFECT LUBRICATION  
ON ANY  
GASOLINE ENGINE

Sullivanoil Company, Chicago

# SULLIVANOIL

## PUMPELLY BATTERIES

ARE THE BEST



FOR  
SPARKING, LIGHTING  
AND PROPELLING THE  
AUTOMOBILE

We manufacture them in  
all sizes and capacities. We  
renew any make and size  
Storage Battery.

WE USE NO WOODEN  
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WRITE FOR PRICES

PUMPELLY BATTERY CO.

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6 volt, 60 ampere hours, guaranteed to run car  
over 2,000 miles on one charge if spark  
coil is properly adjusted.

534 Pages

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We Have the Goods

Wire or write when in a hurry.

We will give you what you want when you want it.

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Largest Auto Supply House  
in the World

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*Motor Car Supply Co.*

G. S. CHAPIN, M. D., President

1451-1453-1455 Michigan Boulevard, CHICAGO

# In Actual Brake Tests this Plug has shown Greater Horse Power than any other



John B. Anderson, M. D.

01809 Division Street, Spokane, Wash.  
May 27, 1909.

The National Steel Products Co.,  
Cleveland, Ohio.

Gentlemen:

Enclosed please find my check in the sum of Eight Dollars for which send me four spark plugs. I have tried plugs of several different makes. Yours is the best ever. I have a set that I have used in my Ford Model N Car **for a year**. Yesterday I went for a seventy mile run, and as one of my plugs is in poor condition, the mica being broken, I purchased a new plug said to be soot proof and to spark in oil and water. I made the run of thirty-five miles with the engine being erratic after the first few miles, and as I was loosing power on the hills I examined the plugs, found the New Plug as black as soot itself, and the other three plugs all with a sparking surface. I brushed them off with a stiff brush, and put in my old dilapidated plug and made the other thirty-five miles without mishap. **I do not give a D— whether a plug will spark in oil and water. I want one that will spark in the cylinder, and permit me to say that your plug will do it.** I think that you will make the other fellows sit up and take notice. I tell you this now, as post mortem roses have their beauty lost to the fellow most interested.

Yours very truly,

JNO. B. ANDERSON.

We are supplying a number of the largest automobile manufacturers, who have previously contracted for other plugs, with our Spiral Core, Blue Blaze and Rapid Fire Plugs, for 1909 use, they having discontinued other plugs because of better results from ours.

## Horse Power









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